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# Notes on the tiger beetles (Coleoptera: Carabidae: Cicindelinae) of Vietnam. 135. Contribution towards the knowledge of Cicindelinae

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## Notes on the tiger beetles (Coleoptera: Carabidae: Cicindelinae) of Vietnam. 135. Contribution towards the knowledge of Cicindelinae

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**Abstract.** Distributional records of the 177 tiger beetle species and subspecies known for Vietnam are given together with a key and habitus photos (Coleoptera: Carabidae: Cicindelinae). *Tricondyla* (*Tricondyla*) *macrodera abruptesculpta* Horn, 1925, *Protocollyris festiva* Naviaux, 2008, *Neocollyris* (*Brachycollyris*) *purpureomaculata borea* Naviaux, 1994, *Neocollyris* (*Brachycollyris*) *torosa* Naviaux, 2010, *Neocollyris* (*Leptocollyris*) *rogeri* Shook and Wu, 2006, *Neocollyris* (*Leptocollyris*) *laosensis* Naviaux, 1999, *Neocollyris* (*Stenocollyris*) *rubens* (Bates, 1878), *Neocollyris* (*Pachycollyris*) *tricolor* Naviaux, 1991, *Neocollyris* (*Pachycollyris*) *panfilovi* Naviaux and Matalin, 2002, *Therates rugulosus* Horn, 1900, *Therates bannapecolus* Sawada and Wiesner, 1999, *Calochroa interruptofasciata flavolineata* (Chaudoir, 1865), *Cylindera* (*Ifasina*) *cyclobregma* Acciavatti and Pearson, 1989, *Cylindera* (*Ifasina*) *decolorata* (Horn, 1907), *Cylindera* (*Ifasina*) *humillima* (Gestro, 1893) and *Cylindera* (*Eugrapha*) *elisae elisae* (Motschulsky, 1859) are reported for the first time in the fauna of Vietnam. *Neocollyris* (*Isocollyris*) *septentrionalis* Naviaux, 1999, *Neocollyris* (*Leptocollyris*) *linearis tenuicornis* (Chaudoir, 1864), *Neocollyris* (*Pachycollyris*) *aptera apicalis* (Chaudoir, 1864), *Neocollyris* (*Pachycollyris*) *contracta* (Horn, 1905), *Therates dimidiatus wallacei* Thomson, 1857, *Cylindera* (*Cylindera*) *pseudocylindriformis* Horn, 1913, *Cylindera* (*Ifasina*) *viridilabris* (Chaudoir, 1852), *Cylindera* (*Ifasina*) *psilica psilica* (Bates, 1866), *Cylindera* (*Eugrapha*) *venosa* (Kollar, 1836) and *Myriochila* (*Myriochila*) *undulata* (Dejean, 1825) are excluded from the fauna of Vietnam.

**Key Words.** Faunistic data.

### Introduction

In the Nineteenth and early Twentieth Centuries, modern day Vietnam had various administrative borders. It was divided into Annam, Cochinchine and Tonkin while a French colony, then it was divided into North and South Vietnam, and in 1976 it was reunited to produce its present borders. Today Vietnam is divided into 63 provinces, grouped into eight regions (Fig. 189, 197).

The basic physical aspects of Vietnam include: the northern mountainous area that is an extension of the Chinese highland of Yunnan; the Annam mountains range, running generally from north-west to south-east in the centre of the country; and two wide alluvial deltas formed by the Red River in the north and by the Mekong River in the south. A long and relatively narrow coastal plain runs between these two deltas.

Despite ongoing deforestation and the damages produced during the war that ended in 1975, large parts of Vietnam are still covered by pluvial and secondary forests, which are protected by several National Parks and Nature Reserves. This protection is important for conserving the remaining biodi-

versity of the country. This protection is also vital for tiger beetles as a majority of Vietnam's species are forest dwelling.

Throughout South-Eastern Asia more than 530 species of tiger beetles have been found (Cassola and Pearson 2000). Vietnam exhibits one of the richest fauna of Cicindelinae in this region and its species diversity as well as the proportion of endemics are comparable or even exceed the diversity of the faunas of neighboring countries. Over the last 25 years the species-list of tiger beetles of Vietnam increased 1.5 times, while the number of the endemics increased more than two times (Fedorenko and Matalin 2011).

Despite such diversity and endemism, the Cicindelinae of Vietnam were, until recently, primarily known from fragmented revisions of specific genera (Wiesner 1988, 2013a; Naviaux 1995a, 2002), descriptions of new taxa (Horn 1902, 1937; Tscherskasov 1992; Cassola and Werner 1995; Cassola and Probst 1996; Naviaux 1996a, 1996b, 2004, 2008; Wiesner 1996, 2016; Cassola 2002; Deuve 2002; Matalin and Cherkasov 2004; Matalin and Wiesner 2006; Matalin and Naviaux 2008; Naviaux and Schüle 2008; Matalin et al. 2012; Matalin 2015a, 2015b) or in a historical context (Horn 1913, 1914, 1926). In recent catalogues of the world fauna of tiger beetles (Wiesner 1992) as well as ground beetles as a whole (Lorenz 2005) the species-lists included only the regional distribution, while in the analytical papers (Pearson and Cassola 1992; Cassola and Pearson 2000) the total number of the taxa is only discussed. Even in recent species-lists of Vietnamese Cicindelinae (Cassola 2004) the information about the localities and the phenology of separate species are absent. Our goal is to update and detail the occurrence of all tiger beetles known to occur in Vietnam.

## Materials and Methods

The provincial records were extracted from Naviaux and Pinratana (2004) for Thailand, from Wiesner (2014) for Cambodia, from Wiesner and Geiser (2016) for Laos, from Wu (2011) for China, and from Wiesner (1992) for the remaining states.

Many of the new records listed herein were obtained from several expeditions to Vietnam carried out by entomologists of the Museum of Nature History of Florence (Italy), including the second author and from expeditions carried out by Dr. Dmitry Fedorenko, who is a member of the Russia-Vietnam Tropical Centre (Moscow-Hanoi). Such expeditions have been made in the frame of a Memorandum of Understanding signed with the Vietnam National Museum of Nature for a joint program of scientific research. In addition a considerable number of new records have been obtained from the specimens deposited in several institutional and private collections.

Specimens mentioned here are deposited in:

<b>ABIC</b>	collection of Aligi Bandinelli, Firenze, Italy
<b>ANLC</b>	collection of Alexander Napolov, Riga (Riga Zoo), Latvia
<b>ASGC</b>	collection of Andre Skale, Hof, Germany
<b>CKGC</b>	collection of Christian Kerkerling, Emsdetten, Germany
<b>CMNH</b>	Carnegie Museum of Nature History, Pittsburgh, USA
<b>CSCA</b>	California State Collection of Arthropods, Sacramento, USA
<b>EOIC</b>	collection of Eylon Orbach, Qiryat Tivon, Israel
<b>GLFC</b>	collection of Georges Ledoux, Clarmart, France
<b>IORC</b>	collection of Igor Ovsyannikov, Moscow, Russia
<b>IRSNB</b>	Institut royal des Sciences naturelles de Belgique, Brussels, Belgium
<b>JGGC</b>	collection of Jörg Gebert, Schleife-Rohne, Germany
<b>JWGC</b>	collection of Jürgen Wiesner, Wolfsburg, Germany
<b>JSGC</b>	collection of Joachim Schmidt, Admannshagen, Germany
<b>KUNHM</b>	University of Kansas, Nature History Museum, USA
<b>MNHN</b>	Muséum National d'Histoire Naturelle, Paris, France
<b>MPU</b>	Moscow State Pedagogical University, Russia
<b>MZUF</b>	Zoological Museum of the University of Florence, Italy
<b>NHMW</b>	Naturhistorisches Museum Wien, Austria

**A1. Subtribe Tricondyliina** Naviaux, 1991, **genus** *Tricondyla* Latreille, 1822, **subgenus** *Tricondyla* s. str. (Fig. 182)



1.	Pronotum with distinct transverse furrows .....	2
—	Pronotum smooth or with extinguishing furrows .....	3
2(1).	Pronotum slender and long, ratio length to width larger than 2.3 .....	
	..... 1. <i>T. (T.) pulchripes</i> White, 1844	
—	Pronotum stout and short, ratio length to width smaller than 2.1 .....	
	..... 11. <i>T. (T.) mellyi</i> Chaudoir, 1850	
3(1).	Pronotum stout and broad, ratio length to width smaller than 1.9 .....	
	..... 13. <i>T. (T.) proxima</i> Fleutiaux, 1893	
—	Pronotum smaller, ratio length to width larger than 1.9 .....	4
4(3).	Body length 19 mm or larger .....	5
—	Body length smaller than 19 mm .....	6
5(4).	Apical half of elytra covered with tiny pits .... 12. <i>T. (T.) annulicornis</i> Schmidt-Goebel, 1846	
—	Apical third of elytra smooth, without tiny pits .....	
	..... 7. <i>T. (T.) macrodera abruptesculpta</i> Horn, 1925	
6(4).	Pronotum slender and long, ratio length to width larger than 2.0 .....	9
—	Pronotum stout and shorter, ratio length to width smaller than 2.0 .....	7
7(6).	Pronotum oval shaped; aedeagus with a hump in ventral part .....	
	..... 10. <i>T. (T.) ovaligrossa</i> Horn, 1922	
—	Pronotum subparallel-sided; aedeagus without hump .....	8
8(7).	Pronotum dilated on the sides; elytral sculpture formed by large and deep pits, forming honeycombs in the center .....	9. <i>T. (T.) gestroi scabra</i> Fleutiaux, 1920
—	Pronotum subparallel-sided; elytral sculpture formed by regular roundish pits .....	
	..... 8. <i>T. (T.) gestroi gestroi</i> Fleutiaux, 1893	
9(6).	Apical half of elytra smooth, lacking any punctures or pits .....	
	..... 5. <i>T. (T.) distincta</i> Fleutiaux, 1893	
—	Apical half of elytra covered with punctures or pits .....	10
10(9).	Apical half of elytra covered with shallow punctures .....	11
—	Apical half of elytra covered with distinct punctures .....	12
11(10).	Wrinkles on elytra reaching back to the apical half .....	4. <i>T. (T.) deveui</i> Naviaux, 2002
—	Wrinkles on elytra outspreading only on basal third .....	6. <i>T. (T.) mourzinei</i> Naviaux, 2002
12(10).	Pronotum stout, ratio length to width smaller than 2.0 .....	3. <i>T. (T.) ledouxii</i> Naviaux, 2002
—	Pronotum slender, ratio length to width larger than 2.0 .....	
	..... 2. <i>T. (T.) stricticeps</i> Chaudoir, 1864	

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Thanh So' n, 86m, N21° 12' 48.72" E106° 45' 50.76", leg. A. Skale, 18-21.v.2015, 1 male (ASGC), Bac Kan, Ba Be National Park,

350m, leg. E. Orbach, 3/8.vi.2011, 1 male (EOIC), Bac Kan, Ba Bè National Park (entry), N2° 25' 07" E105° 38' 09", 180-220m, leg. A. Skale, 16-20.v.2014, 1 specimen (ASGC), leg. A. Weigel, 18.v.2014, 1 specimen (NMEG), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21° 23' 3" E105° 42' 44", 60-80m, 12.v.2012, leg. A. Skale, 1 specimen (ASGC), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 26-30.v.1996, 1 female (ANLC); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, 800m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 21-24.vi.2012, 2 females (MZUF), 1 male, 2 females (EOIC), Hai Phong, 25 km E of Hai Phong, ~ 10 km N of Cat Ba City, Cat Ba island National Park, N20° 47' 56" E106° 59' 47", leg. D. Fedorenko, 21.x.2001, 1 male (SIEE), Vinh Phuc, Me Linh distr., Ngoc Thanh, Tam Dao foothills, N21° 24' E105° 43', 400m, leg. S. Belokobylskij, 12-13.v.2002, 1 female (MPU); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 23-28.v.2014, 2 males (ABIC), Thua Thien-Hue, Bach Ma National Park, N16° 11' 42" E107° 51' 46.8", *Rhododendron* Tr., 1150m, Bezark, Bicha, Mudge and Schiff, 18-23.vi.2015, 1 male, 2 females (CSCA), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, on Ho Chi Minh trail, 800m, N16° 6' 14.4" E107° 26' 52.8", light trap, A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg. 22.v.2017, 1 female (ABIC), Thua Thien-Hue, Bach Ma National Park, 1200m, N16° 11' 38" E107° 51' 23", E. Orbach, 30.v.2017, 1 female (EOIC); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, N14° 28' 26.4" E, 900 m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8-12.v.2016, 1 female (ABIC). **Distribution.** Vietnam (Bac Giang, Bac Kan, Gia Lai, Ha Noi City, Hai Phong City, Lang Son, Lao Cai, Thai Nguyen, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Yunnan), Laos (Borikhamxay, Champasack, Khammuane), Cambodia. **Remarks.** New provincial records for Bac Giang, Bac Kan, Gia Lai, Ha Noi City, Hai Phong City, Thai Nguyen, Thua Thien-Hue, Tuyen Quang, and Vinh Phuc.

## 2. *Tricondyla (Tricondyla) stricticeps* Chaudoir, 1864 (Fig. 2, 199)

*Tricondyla macrodera*: Horn 1902: 66; 1913: 362; 1924: 3.

*Tricondyla macrodera stricticeps*: Horn 1929: 21.

*Tricondyla (Tricondyla) stricticeps*: Naviaux 2002: 37, 38; Fedorenko and Matalin 2011: 128; Matalin 2015b: 618.

**Published data.** ? Budan (Horn 1929: 21); NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 362; 1924: 3).

**New records.** NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Skale, 6-10.v.2013, 1 specimen (ASGC), Cao Bang, vic. Tinh Tuc, Son Dong, Nui Pia Oac Nature Reserve, N22° 37' 55" E105° 52' 98", 850-1300m, leg. A. Skale, 9-15.v.2014, 1 specimen (ASGC), leg. A. Weigel, 1 male, 1 female (NMEG), 1 male (JGGC); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park., 1250m, N16° 11' 34.8" E107° 51' 10.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 29-31.v.2017, 1 female (ABIC), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 315m, N16° 03' 22" E107° 28' 50", E. Orbach, 22.v.2017, 1 male (EOIC); CENTRAL HIGHLANDS: Kon Tum, Chu Mom Ray National Park, Dak Car river, N14° 30' E107° 43', 730m, 28.iii-4.iv.2015, leg. D. Fedorenko, 2 males (MPU, SIEE), Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3.v.2016, 1 male (ABIC),

**Distribution.** Vietnam (Cao Bang, Kon Tum, Lang Son, Thua Thien-Hue), China (Hong Kong), Laos (Borikhamxay, Champasack, Khammuane), Cambodia, Thailand. (Chanthaburi, Nakhon Ratchasima).

**Remarks.** New provincial records for Cao Bang, Kon Tum and Thua Thien-Hue.

## 3. *Tricondyla (Tricondyla) ledouxi* Naviaux, 2002 (Fig. 3, 200)

*Tricondyla ledouxi*: Naviaux 2002: 38.

*Tricondyla (Tricondyla) ledouxi*: Naviaux 2002: 38.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Djiring) (Naviaux 2002: 38); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128 as *T. stricticeps*).

**New records.** CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, N14° 12' 11" E108° 18' 54", Kon Ka Kinh National Park, 890m, leg. D. Fedorenko, 9-22.v.2016, 1 male (MPU), Lam Dong, Lang Bian, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC), Lam Dong, 35 km NNW of Bao Loc, near Loc Bao, N11° 50' 12" E107° 38' 25", 650m, leg. D. Fedorenko, 17-22.iv.2012, 1 male (SIEE); SOUTHEAST:



Ba Ria-Vung Tau, Con Son Isl., Con Dao National Park, N8° 41' 30" E106° 38' 00", day collecting, leg. J. Constant and J. Bresseel, 17-24.vi.2012, 1 male (IRSNB), Dong Nai, Nam Cat Tien National Park, leg. N. Belyaeva, 7-20.xii.2005, 1 male (MPU).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Dong Nai, Gia Lai, Lam Dong).

**Remarks.** New provincial records for Ba Ria-Vung Tau, Dong Nai and Gia Lai.

#### 4. *Tricondyla (Tricondyla) deuvei* Naviaux, 2002 (Fig. 4, 201)

*Tricondyla (Tricondyla) deuvei*: Naviaux 2002: 40-42.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Naviaux 2002: 40); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 2002: 40).

**Distribution.** Vietnam (Lang Son, Vinh Phuc).

#### 5. *Tricondyla (Tricondyla) distincta* Fleutiaux, 1893 (Fig. 5, 202)

*Tricondyla macrodera distincta*: Horn 1929: 21.

*Tricondyla (Tricondyla) distincta*: Naviaux 2002: 42, 43.

**Published data.** SOUTHEAST: Tay Ninh (Horn 1929: 21).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 2 males, 2 females (JWGC), Lam Dong, Bi Doup-Nui Ba National Park, near Long Lanh, N12° 10' 44" E108° 40' 44", 1400-1600m, leg. D. Fedorenko, 20-21.iv.2008, 1 male (SIEE), Lam Dong, Bidoup-Nui Ba National Park, N12° 26' E108° 30', leg. J. Constant and J. Bresseel, 21-25.vii.2014, 2 males (IRSNB), Lam Dong, Bi Doup National Park, N12° 10' 55.2" E108° 40' 48", 1456m, L. G. Bezark, 6-10.vi.2015, 1 male (JWGC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordoni, 11-15.vi.2015, 1 female (MZUF); SOUTHEAST: Dong Nai, Dong Nai Biosphere Reserve N11° 18' E107° 06', night collecting, leg. J. Constant and J. Bresseel, 25.vi.-6.vii.2012, 1 male (IRSNB).

**Distribution.** Vietnam (Dong Nai, Lam Dong, Tay Ninh), Laos (Xiengkhuang).

**Remarks.** New provincial records for Dong Nai and Lam Dong.

#### 6. *Tricondyla (Tricondyla) mourzinei* Naviaux, 2002 (Fig. 6, 203)

*Tricondyla (Tricondyla) mourzinei*: Naviaux 2002: 44.

**Published data.** SOUTHEAST: Dong Nai (Ma Da forest) (Naviaux 2002: 44).

**New records.** NORTHEAST: Cao Bang, Mt. Pia Oac, 1600-2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 1 female (MZUF), 1 female (EOIC), Cao Bang, Nguyen Binh, Phu Tho, Pia Oac Nature Reserve, 1400m, leg. E. Orbach, 14-16.vi.2012, 1 male, 2 females (EOIC); CENTRAL HIGHLANDS: Dak Lak, Chu Yang Sin National Park, N12° 25' 25" E108° 21' 53", upper flow of Krong Kmar River, 970m, leg. D. Fedorenko, 15-30.v.2014, 1 female (SIEE); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, leg. D. Fedorenko, 16-17.iv.2009, 1 male (SIEE), Dong Nai, Cat Tien National Park, N11° 26' 59" E107° 25' 40", E. Orbach, 12.vi.2015, 1 female (EOIC).

**Distribution.** Vietnam (Binh Phuoc, Cao Bang, Dak Lak, Dong Nai).

**Remarks.** New provincial records for Binh Phuoc, Cao Bang and Dak Lak.

#### 7. *Tricondyla (Tricondyla) macrodera abruptesculpta* Horn, 1925 (Fig. 7, 204)

*Tricondyla (Tricondyla) macrodera abruptesculpta*: Naviaux 2002: 40.

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, M. Kalabza and Z. Kostal, leg., 6-20.v.1990, 1 female (JWGC), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 female (CSCA).

**Distribution.** Vietnam (Vinh Phuc), China (Anhui, Fujian, Guangdong, Guizhou, Guangxi, Hunan, Jiangxi, Sichuan, Xizang, Yunnan).

**Remarks.** New state record for Vietnam and new provincial record for Vinh Phuc.

#### 8. *Tricondyla (Tricondyla) gestroi gestroi* Fleutiaux, 1893 (Fig. 8, 205)

*Tricondyla Gestroi*: Horn 1913: 362.

*Tricondyla gestroi*: Cassola and Probst 1996: 15.

*Tricondyla (Tricondyla) gestroi gestroi*: Naviaux 2002: 46, 47.

**Published data.** NORTHEAST: Lao Cai (Horn 1913: 362), Lao Cai (Sa Pa) (Cassola and Probst 1996: 15).

**Distribution.** Vietnam (Lao Cai), China (Yunnan), Laos (Attapeu, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Vientiane), Thailand (Chiang Mai, Nahkon Ratchasima), Myanmar.

**9. *Tricondyla (Tricondyla) gestroi scabra*** Fleutiaux, 1920 (Fig. 9, 206)

*Tricondyla Gestroi scabra*: Horn 1924: 4; 1929: 18.

*Tricondyla (Tricondyla) gestroi scabra*: Naviaux 2002: 47, 48.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1924: 4; 1929: 18; Naviaux 2002: 47).

**New records.** NORTHEAST: Lao Cai, Sa Pa, 1250m, leg. A. Napolov, 1-5.vii.1998, 1 female (ANLC), Lao Cai, 6 km W of Sa Pa, northern slope of Fan-Si-Pan Mountain, leg. A.V. Abramov, v.2008, 3 males (ZISP), Lao Cai, Hoang Lien Son Mountain Ridge, Fan-Si-Pan Mountain, near Tram Tong, 1950-2100m, leg. D. Fedorenko, 15-30.vii.2007, 2 males, 1 female (MPU, SIEE), Lao Cai, Hoang Lien National Park, Tram Non, N22° 21' 11.82" E103° 46' 30.78", 1800-2050m, leg. R. Gerstmeier, 16.v.2015, 2 males, 2 females (JWGC), l. c. leg. A. Skale, 13-16.v.2015, 1 male, 10 females (ASGC).

**Distribution.** Vietnam (Lao Cai), China (Xizang, Yunnan), Laos (Houaphanh, Phongsaly, Xiengkhuang), Thailand (Chiang Mai, Nahkon Ratchasima).

**10. *Tricondyla (Tricondyla) ovaligrossa*** Horn, 1922 (Fig. 10, 207)

*Tricondyla macrodera ovaligrossa*: Horn 1924: 3.

*Tricondyla (Tricondyla) ovaligrossa*: Naviaux 2002: 48.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Horn 1924: 3; Naviaux 2002: 48).

**Distribution.** Vietnam (Vinh Phuc), Laos (Luangnamtha).

**11. *Tricondyla (Tricondyla) mellyi*** Chaudoir, 1850 (Fig. 11, 183, 208)

*Tricondyla Mellyi*: Horn 1902: 66; 1913: 362; 1924: 4; 1929: 18, 21.

*Tricondyla mellyi*: Cassola and Probst 1996: 15.

*Tricondyla (Tricondyla) mellyi*: Naviaux 2002: 49.

**Published data.** NORTHWEST: Dien Bien (Dien Bien Phu) (Horn 1924: 4), Lai Chau (Phong Tho) (Horn 1924: 4); NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 362; 1924: 4), Lao Cai (Sa Pa) (Horn 1924: 4; 1929: 18; Cassola and Probst 1996: 15); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Horn 1924: 3); CENTRAL HIGHLANDS: Lam Dong (Da Lat) (Horn 1929: 21).

**New records.** NORTHEAST: Cao Bang, Mt. Pia Oac, 1600-2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 3 males (MZUF), Lao Cai, Sa Pa, 1250m, leg. A. Napolov, 31.v-5.vii.1998, 3 males, 1 female (ANLC), Lao Cai, Sapa Mts., 1800m, local collector, vii.2015, 1 female (CKGC); RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 female (EOIC), Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", day collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 1 female (IRSNB), Vinh Phuc, Tam Dao, 80 km N of Ha Noi, 13.iv.1986, 1 male, (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 2 specimens (ASGC), Vinh Phuc, vic. Tam Dao town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, 2-5.v.2013, leg. A. Weigel, 1 male, (JGGC), Vinh Phuc, 55 km NNW of Ha Noi, Tam Dao, 800-900m, iv-viii.1998, 1 male, 2 females (MPU, ANLC), Vinh Phuc, 55 km NNW of Ha Noi, near Tam Dao, 800m, leg. A. Napolov, 27.vii.1998, 1 male (ANLC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 1 male (EOIC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 1 male (MZUF); NORTH CENTRAL COAST: Nghe An, Pu Mat Mts., 1000m, local collector, v.2015, 1 female (CKGC), Thanh Hoa, 180 km SSW of Hanoi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 1 female (ANLC), Thua Thien-Hue, Bach Ma National Park, surr. Hotel Morin, 1350-1400m, N16° 12' 0" E107° 51' 0", leg. L. Bartolozzi, G. Chelazzi, A. Bandinelli, S. Bambi, F. Fabiano, 23-28.v.2014, 1 female (MZUF), Thua Thien-Hue, Bach Ma National Park, N16° 11' 42" E107° 51' 46.8", *Rhododendron* Tr., 1150m, Bezark, Bicha, Mudge and Schiff, 18-23.vi.2015, 1 male, 3 females (CSCA), Thua Thien-Hue, Bach Ma National Park., 1250m, N16° 11' 34.8" E107° 51' 10.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 29-31.v.2017, 1 female (ABIC), Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 6' 25.2" E107°

26' 16.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 31.v.2017, 1 male, 1 female (ABIC); CENTRAL HIGHLANDS: Kon Tum, surroundings of Kon Plong, N14° 40' 19.2" E108° 15' 50.4", 1250m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 4-7.v.2016, 1 female (ABIC), Kon Tum, surroundings of Kon Plong, N14° 39' 57.6" E108° 15' 21.6", 1300m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 5.v.2016, 2 females (ABIC), Lam Dong, Bi Doup-Nui Ba National Park, near Long Lanh, N12° 10' 44" E108° 40' 44", 1400-1600m, leg. D. Fedorenko, 30.iii.2008, 1 male, 20-21.iv.2008, 1 male, 1-8.v.2009, 2 males, 1 female (MPU, SIEE), Lam Dong, Bidoup-Nui Ba National Park, N12° 26' E108° 30', light trap, leg. J. Constant and J. Bresseel, 21-25.vii.2014, 1 female (IRSNB), Lam Dong, Bi Doup National Park, N12° 10' 55.2" E108° 40' 48", 1456m, L. G. Bezark, 6-10.vi.2015, 2 males, 1 female (CSCA), Lam Dong, Lac Duong Dist., Bi Doup, Nui Ba National Park, N12° 10' 13" E108° 41' 51", E. Orbach, 17.vi.2015, 1 male, 1 female (EOIC).

**Distribution.** Vietnam (Cao Bang, Dien Bien, Ha Noi City, Kon Tum, Lai Chau, Lang Son, Lam Dong, Lao Cai, Thanh Hoa, Thua Thien-Hue, Vinh Phuc), China (Guangxi, Xizang, Yunnan), Laos (Attapeu, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Xiengkhuang, Vientiane), Thailand (Chiang Mai, Chiang Rai, Ubon Ratchathani), Myanmar (Kachin, Shan).

**Remarks.** New provincial records for Cao Bang, Ha Noi City, Kon Tum, Nghe An, Thanh Hoa and Thua Thien-Hue.

### 12. *Tricondyla (Tricondyla) annulicornis* Schmidt-Goebel, 1846 (Fig. 12, 209)

*Tricondyla cyanea annulicornis*: Horn 1924: 4; 1929: 21.

*Tricondyla (Tricondyla) annulicornis*: Naviaux 2002: 50-52; Matalin 2015a: 618.

**Published data.** SOUTHEAST: Ba Ria-Vung Tau (Horn 1924: 4, = Cap Saint Cacques), Tay Ninh (Horn 1929: 21).

**New records.** SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, leg. D. Fedorenko, 12.iv.2008, 1 male (SIEE).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Binh Phuoc, Tay Ninh), Laos (Borikhamxay, Khammuane, Luangnamtha, Luangprabang, Savannakhet, Vientiane), Thailand (Chanthaburi, Kanchanaburi, Lam-pang, Nakhon Ratchasima, Tak), Myanmar, Malaysia (Malacca).

**Remarks.** New provincial record for Binh Phuoc.

### 13. *Tricondyla (Tricondyla) proxima* Fleutiaux, 1893 (Fig. 13, 210)

*Tricondyla cyanea proxima*: Horn 1913: 362; 1924: 4.

*Tricondyla (Tricondyla) proxima*: Naviaux 2002: 52; Fedorenko and Matalin 2011: 128.

**Published data.** S Vietnam (Naviaux 2002: 52); NORTHEAST: Lao Cai (Horn 1913: 362; 1924: 4); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC); SOUTHEAST: Dong Nai, Nam Cat Tien National Park, 19-20.v.1995, leg. A. Napolov, 1 male, 4-20.vii.1995, 1 female (ANLC), Dong Nai, ca 150 km NE of Ho Chi Minh, Nam Cat Tien National Park, leg. S. Golowatch, 1 female, 7-24.v.2006 (MPU).

**Distribution.** Vietnam (Dong Nai, Lam Dong, Lao Cai), Laos (Champasack).

**Remarks.** New provincial record for Lam Dong.

## A2. Subtribe *Collyrina* Naviaux, 1991 (Fig. 182)

### Key to the genera of subtribe *Collyrina* Naviaux, 1991

1. Vertex short, with a sharp curved line between it and frons ... **A2.3. *Collyris*** Fabricius, 1801, (represented in Vietnam by one species only) **85. *Collyris mnischechii*** Chaudoir, 1864
- Vertex long, smoothly confluent with frons ..... **2**

- 2(1). Labrum very short; body smaller than 9 mm, slender; sculpture of elytra shallow, dense and uniform ..... **A2.1. *Protocollyris*** Mandl, 1975)  
 — Labrum longer ..... **A2.2. *Neocollyris*** Horn, 1901

### A2.1. Genus *Protocollyris* Mandl, 1975

#### Key to the species of genus *Protocollyris* Mandl, 1975

1. Labrum yellow ..... **14. *P. festiva*** Naviaux, 2008  
 — Labrum bluish black or brownish black ..... **2**
- 2(1). Body size less than 9 mm. Three middle teeth of labrum reduced. Knees black, tibia black except central pale area, tarsi black except two brown basal tarsomeres of hind tarsi ..... **15. *P. grossepunctata*** (Horn, 1935)  
 — Body size more or equal than 9 mm. Middle teeth of labrum not reduced. Knees, tibia and tarsi except two apical tarsomeres yellow ..... **16. *P. annamensis*** Naviaux, 1996

#### **14. *Protocollyris festiva*** Naviaux, 2008 (Fig. 14, 211)

*Protocollyris festiva*: Naviaux 2008: 123.

**New records.** SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, at light, leg. D. Fedorenko, 12-13.iv.2009, 1 male (MPU).

**Distribution.** Vietnam (Binh Phuoc), Thailand (Mae Hong Son).

**Remarks.** New state record for Vietnam and new provincial record for Binh Phuoc.

#### **15. *Protocollyris grossepunctata*** (Horn, 1935) (Fig. 15, 212)

*Collyris Sauteri grosse-punctata*: Horn 1935: 49.

**Published data.** Tonkin (Horn 1935: 49).

**New records.** NORTHWEST: Hoa Binh, Mai Chau distr., Hang Kia, N20° 44' E104° 53', 1300m, leg. S. Belokobyl'skij, 25-26.iv.2002, 1 female (MPU), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 3 males, 1 female (MZUF); NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Weigel, 1 male, (JGGC), Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 male (MZUF), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male (IRSNB); RED RIVER DELTA: Ha Noi City, 45 km N of Hanoi, Ba Vi National Park, N21° 04' 33" E105° 21' 47", 700m, leaf-litter, leg. D. Fedorenko, 19.vi.2014, 1 female (MPU), Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", night collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 1 male (IRSNB), Vinh Phuc, Tam Dao, leg. Pacholatko, 13-22.v.1989, 1 male (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 1 specimen (ASGC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 1 male (EOIC); Vinh Phuc, Tam Dao, 900 m, leg. O. Kabakov, 9-30.vi.1963, 1 male, 1 female (ZISP); NORTH CENTRAL COAST: Thanh Hoa, 180 km SSW of Ha Noi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 1 female (ANLC).

**Distribution.** Vietnam (Cao Bang, Ha Noi City, Hoa Binh, Phu Tho, Thanh Hoa, Vinh Phuc), China (Jiangxi), Laos (Borikhamxay, Luangnamtha, Sekong).

**Remarks.** New provincial records for Cao Bang, Ha Noi City, Hoa Binh, Phu Tho, Thanh Hoa and Vinh Phuc.

#### **16. *Protocollyris annamensis*** Naviaux, 1996 (Fig. 16, 213)

*Protocollyris annamensis*: Naviaux 1996a: 230; 2004: 66, 67.

**Published data.** CENTRAL HIGHLANDS: Gia Lai (An Khe/Buion Luoi) (Naviaux 1996a: 230; 2004: 66).



**New records.** CENTRAL HIGHLANDS: Gia Lai, ~ 50 km N of An Khe, Kon Chu Rang Nature Reserve, N14° 30-31' E108° 32', 1000-1040m, leg. D. Fedorenko, 24.v.-2.vi.2016, 1 male (MPU).

**Distribution.** Vietnam (Gia Lai).

## A2.2. Genus *Neocollyris* Horn, 1901 (Fig. 178)

### Key to the subgenera of genus *Neocollyris* Horn, 1901

1. Antennae very short, reaching the middle of the pronotum; labrum only with submarginal setae row ..... **A2.2.5. *Orthocollyris*** Naviaux, 1995
- Antennae longer; labrum with additional setae far from submarginal setae row ..... **2**
- 2(1). Interocular excavation with an oval impression; aedeagus with apical knob ..... **A2.2.2. *Isocollyris*** Naviaux, 1994
- Excavation without oval impression; aedeagus without apical knob ..... **3**
- 3(2). Body shorter than 9 mm, stout and broad ..... **A2.2.1. *Brachycollyris*** Naviaux, 1994
- Body longer ..... **4**
- 4(3). Labrum short.... **A2.2.3. *Paracollyris*** Naviaux, 1994, (represented in Vietnam by one species only) **31. *N. (P.) brevipronotalis*** (Horn, 1929))
- Labrum longer ..... **5**
- 5(4). Pronotum without dorsal structures, slender, tapered, spindle shaped, or globulous ..... **A2.2.6. *Leptocollyris*** Naviaux, 1995
- Pronotum broader, with dorsal structures ..... **6**
- 6(5). Pronotum nodular ..... **A2.2.9. *Pachycollyris*** Naviaux, 1995
- Shape of pronotum not nodular ..... **7**
- 7(6). Labrum long with elongated teeth ..... **A2.2.8. *Stenocollyris*** Naviaux, 1995
- Labrum short, without elongated teeth ..... **8**
- 8(7). Pronotum long, slender, serrated transversely ..... **A2.2.7. *Mesocollyris*** Naviaux, 1995, (represented in Vietnam by one species only) **64. *N. (M.) kabakovi*** Naviaux and Matalin, 2003)
- Pronotum short, without transverse serration ..... **A2.2.4. *Neocollyris*** s. str.

### A2.2.1. Subgenus *Brachycollyris* Naviaux, 1994

#### Key to the species of subgenus *Brachycollyris* Naviaux, 1994

1. Labrum unicolored black. Basal third and apical third of elytra smooth, middle part with deep furrows ..... **18. *N. (B.) brevis*** Naviaux, 1994
- Labrum bicoloured with centro-apical dark-yellowish patch. Basal third and apical third of elytra covered with small pits, middle part without deep furrows ..... **2**
- 2(1). Elytra green coloured with two broad purple fascia on each side, middle part with large pits; tibiae and tarsi dark brown except more lighter apices ..... **17. *N. (B.) purpureomaculata borea*** Naviaux, 1994
- Elytra uniformly deep blue coloured, middle part with small pits; legs fully black ..... **19. *N. (B.) torosa*** Naviaux, 2010

**17. *Neocollyris (Brachycollyris) purpureomaculata borea*** Naviaux, 1994 (Fig. 17, 214)

**New records.** NORTHWEST: Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22° 74' 12" E04° 93' 95", 970m, E. Orbach, 8-12.vi.2013, 1 female (EOIC); NORTHEAST: Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male (IRSNB); CENTRAL HIGHLANDS: Lam Dong, Lang Bian, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC).

**Distribution.** Vietnam (Lam Dong, Hoa Binh, Tuyen Quang), China (Yunnan), Laos (Champasack, Houaphanh, Louangnamtha, Phongsaly), Thailand (Chiang Mai, Mae Hong Son), Malaysia (Malacca), India (Meghalaya).

**Remarks.** New state record for Vietnam and new provincial records for Hoa Binh, Lam Dong and Tuyen Quang.

**18. *Neocollyris (Brachycollyris) brevis*** Naviaux, 1994 (Fig. 18, 215)

*Neocollyris (Brachycollyris) brevis*: Naviaux 1995a: 53.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 1995a: 53).

**Distribution.** Vietnam (Vinh Phuc).

**19. *Neocollyris (Brachycollyris) torosa*** Naviaux, 2010 (Fig. 19, 216)

**New records.** NORTHEAST: Lao Cai, Hoang Lien Son Mountain Ridge, env. Fan-Si-Pan Mountain, Tram Ton, 1950-2100m, leg. D. Fedorenko, 15-30.vii.2007, 1 female (MPU).

**Distribution.** Vietnam (Lao Cai), China (Yunnan).

**Remarks.** New state record for Vietnam and new provincial record for Lao Cai.

**A2.2.2. Subgenus *Isocollyris*** Naviaux, 1994**Key to the species of subgenus *Isocollyris*** Naviaux, 1994

- |       |  |  |
|-------|--|--|
| 1.    | Elytral apex with yellow band .....                        | <b>26. <i>N. (I.) apiceflava</i></b> Dheurle, 2017               |
| —     | Elytral apex without yellow band .....                     | <b>2</b>   |
| 2(1). | Labrum unicolored .....                                    | <b>3</b>   |
| —     | Labrum bicolored .....                                     | <b>7</b>   |
| 3(2). | Total body length (without labrum) 17 mm or larger .....   | <b>22. <i>N. (I.) grandivadosa</i></b> (Horn, 1935)              |
| —     | Total body length smaller 17 mm .....                      | <b>4</b>   |
| 4(3). | Elytral sculpture regular throughout .....                 | <b>28. <i>N. (I.) erichwernerii</i></b> Naviaux and Schüle, 2008 |
| —     | Elytral sculpture finer at the basal third .....           | <b>5</b>   |
| 5(4). | Mesotibiae completely dark .....                           | <b>27. <i>N. (I.) auripennis</i></b> (Horn, 1902)                |
| —     | Mesotibiae partly pale .....                               | <b>20. <i>N. (I.) fruhstorferi</i></b> (Horn, 1902)              |
| 6(2). | Total body length (without labrum) 15 mm or larger .....   | <b>29. <i>N. (I.) moravecii</i></b> Naviaux, 2004                |
| —     | Total body length (without labrum) lesser than 15 mm ..... | <b>7</b>   |
| 7(6). | Total body length (without labrum ) 11 mm or larger .....  | <b>9</b>   |
| —     | Total body length (without labrum) lesser than 11 mm ..... | <b>8</b>   |
| 8(7). | Pronotum with a collum in front .....                      | <b>30. <i>N. (I.) modica</i></b> Naviaux, 1994                   |
| —     | Pronotum without a distinct collum .....                   | <b>25. <i>N. (I.) convergentefrontalis</i></b> (Horn, 1923)      |
| 9(7). | Elytral middle fascia very broad .....                     | <b>23. <i>N. (I.) purpurascens</i></b> Naviaux, 1992             |
| —     | Elytral middle fascia slender or absent .....              | <b>10</b>  |



- 10(9). Pronotum slender, more than 3 times longer than wide .....  
 .....**24. *N. (I.) paradoxa*** Matalin and Naviaux, 2008  
 — Pronotum stout, lesser than 3 times longer than wide ... **21. *N. (I.) resplendens*** (Horn, 1902)

**20. *Neocollyris (Isocollyris) fruhstorferi*** (Horn, 1902) (Fig. 20, 217)

*Collyris Fruhstorferi*: Horn 1902: 68; 1913: 363; 1924: 8; 1929: 18.

*Neocollyris (Isocollyris) fruhstorferi*: Naviaux 1995a: 60, 62.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65; 1913: 363; 1924: 8; Naviaux 1995a: 60), Lao Cai (Sa Pa) (Horn 1924: 8; 1929: 18).

**New records.** NORTHWEST: Hoa Binh, Mai Chau distr., Pa Co, Xa Linh, N20° 44' E104° 55', 1200m, leg. S. Belokobylskij, 20.iv.2002, 1 male (ZISP), Hoa Binh, Yen Thuy distr., Lac Thinh, Cuc Phouc National Park, N20° 23' E105° 34', leg. S. Belokobylskij, 1-2.v.2002, 1 female (ZISP), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF); NORTHEAST: Cao Bang, Nguyen Binh, Phu Tho, Pia Oac Nature Reserve, 1400m, leg. E. Orbach, 14-16.vi.2012, 1 female (EOIC), Lao Cai, Cat Cat, nr. Sa Pa, 1300-1400 m, N22° 19' 43" E103° 50' 02", leg. Ahrens, Jäger, Fabrizi, 25./26.v.1999, 1 male (JWGC), Lao Cai, Van Ban National Park, 1000m, leg. E. Orbach, 23/26.v.2011, 1 male, 1 female (EOIC), Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 2 males, 2 females (MZUF), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-9.vi.1996, 2 males (ANLC); RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 male, 1 female (EOIC), Ninh Binh, Cuc Phuong National Park, 200m, N20° 19' 21" E105° 37' 36", leg. L. Bartolozzi, G. Chelazzi, A. Bandinelli, S. Bambi, F. Fabiano, 3-5.v.2014, 1 male (MZUF), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 1 female (ABIC), Vinh Phuc, Tam Dao, M. Kalabza and Z. Kostal, leg., 6-20.v.1990, 1 male, 1 female (JWGC), Vinh Phuc, Tam Dao, J. Picka leg., 3-11.vi.1995, 1 male (JWGC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 2 males, 2 females (EOIC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 3 males, 1 female (MZUF), Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 14.v.1962, 1 female, 1.vii.1962, 2 males, 1 female, 9.vi.1963, 4 males, 2 females, Vinh Phuc, Tam Dao, 1600m, leg. V. Sinjaev, 17.vii.1993, 1 female (PURC), Vinh Phuc, Tam Dao, leg. A. Gorochoy, 27.v.1999, 1 female (ZISP).

**Distribution.** Vietnam (Cao Bang, Ha Noi City, Hoa Binh, Lang Son, Lao Cai, Ninh Binh, Tuyen Quang, Vinh Phuc), China (Guangdong, Guangxi, Hubei, Hunan, Yunnan), Laos (Borikhamxay, Khammuane).

**Remarks.** New provincial records for Cao Bang, Ha Noi City, Hoa Binh, Ninh Binh, Phu Tho, Tuyen Quang, and Vinh Phuc.

**21. *Neocollyris (Isocollyris) resplendens*** (Horn, 1902) (Fig. 21, 218)

*Collyris resplendens*: Horn 1902: 66, 67; 1913: 362; 1924: 5.

*Neocollyris (Isocollyris) resplendens*: Naviaux 1995a: 71, 72.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 362; 1924: 5; Naviaux 1995a: 71).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1200m, N16° 11' 38" E107° 51' 23", E. Orbach, 30.v.2017, 1 female (EOIC).

**Distribution.** Vietnam (Lang Son, Thua Thien-Hue).

**Remarks.** New provincial record for Thua Thien-Hue.

**22. *Neocollyris (Isocollyris) grandivadosa*** (Horn, 1935) (Fig. 22, 219)

*Collyris aureofusca grandi-vadosa*: Horn 1935: 50, 51.

*Neocollyris (Isocollyris) grandivadosa*: Naviaux 2004: 74-76.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1935: 51).

**New records.** NORTHEAST: Lao Cai, Van Ban National Park, 1000m, leg. E. Orbach, 23/26.v.2011, 1 male (EOIC), Cao Bang, Nguyen Binh distr., Quang Thanh, leg. N.L. Orlov, 4-13.v.1998, 1 female (ZISP); RED RIVER DELTA: Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 female (JWGC).

**Distribution.** Vietnam (Cao Bang, Lao Cai, Lang Son, Vinh Phuc).

**Remarks.** Naviaux erroneously mixed in his monography (1995a: 58) *N. (I.) grandisubtilis* (Horn, 1935) (from China) and *N. (I.) grandivadosa*, believing, that latter may be a synonym. In 2004: 75 he reestablished *N. (I.) grandivadosa* as bona species. New provincial records for Cao Bang, Lao Cai and Vinh Phuc.

**23. *Neocollyris (Isocollyris) purpurascens*** Naviaux, 1992 (Fig. 23, 220)

*Neocollyris purpurascens*: Naviaux 1992b: 452.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 1992b: 452).

**New records.** NORTHEAST: Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 9-14.vi.1996, 1 male (ANLC).

**Distribution.** Vietnam (Tuyen Quang and Vinh Phuc).

**Remarks.** New provincial record for Tuyen Quang.

**24. *Neocollyris (Isocollyris) paradoxa*** Matalin and Naviaux, 2008 (Fig. 24, 221)

*Neocollyris (Isocollyris) paradoxa*: Matalin and Naviaux 2008: 11–13.

**Published data.** NORTHWEST: Hoa Binh (Mai Chau, Pa Co) (Matalin and Naviaux 2008: 11).

**New records.** NORTHEAST: Tuyen Quang, Na Hang Dist., Na Hang Nature Reserve, N22° 35' 20" E105° 42' 24", 215m, E. Orbach, 5-7.vi.2013, 1 female (EOIC).

**Distribution.** Vietnam (Hoa Binh, Tuyen Quang).

**Remarks.** New provincial record for Tuyen Quang.

**25. *Neocollyris (Isocollyris) convergentefrontalis*** (Horn, 1923) (Fig. 25, 222)

*Collyris convergente-frontalis*: Horn 1924: 5, 6.

*Neocollyris (Isocollyris) convergentefrontalis*: Naviaux 1995a: 66, 68.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1924: 6, Naviaux 1995a: 68).

**New records.** NORTHEAST: Lao Cai, Sa Pa distr., Fan-Si-Pan Mountain, N22° 18' 56" E103° 49' 25", 1400-1500m, leg. N. L. Orlov, 26.v-6.vi.1999, 1 male (ZISP), Lao Cai, Hoang Lien Son National Park, N22° 20' 51.144" E103° 46' 49.764", 1922m, leg. A. Prosvirov, 1.v.2013, 1 male (MPU).

**Distribution.** Vietnam (Lao Cai).

**26. *Neocollyris (Isocollyris) apiceflava*** Dheurle, 2017 (Fig. 26, 223)

*Neocollyris (Isocollyris) apiceflava*: Dheurle 2017: 37-39.

**Published data.** NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park (Dheurle 2017: 37).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 850m, N16° 6' 25.2" E107° 26' 16.8", leg. E. Bartolozzi, S. Bambi, A. Bandinelli, E. Orbach, V. Sbordoni, 20-25.v.2017, 2 males (MZUF), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 850m, N16° 5' 2.4" E107° 28' 15.6", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 22.v.2017, 1 male (ABIC), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 male (EOIC).

**Distribution.** Vietnam (Thua Thien-Hue).

**27. *Neocollyris (Isocollyris) auripennis*** (Horn, 1902) (Fig. 27, 224)

*Collyris auripennis*: Horn 1902: 67; 1913: 362; 1924: 5.

*Neocollyris (Isocollyris) auripennis*: Naviaux 1995a: 62, 64; Cassola and Probst 1996: 15.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65; 1913: 362; 1924: 5; Naviaux 1995a: 62; Cassola and Probst 1996: 15).

**New records.** NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve N22° 33' 53" E105° 52' 53", 900-1300m, A. Skale, 6-10.v.2013, 1 male (JWGC) l. c. 10-15.v.2014, 1 female (ASGC); RED RIVER DELTA: Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 3.vi.1962, 1 female (ZISP), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 2 males, 2 females (CSCA).

**Distribution.** Vietnam (Cao Bang, Lang Son, Vinh Phuc), China (Hunan).

**Remarks.** New provincial records for Cao Bang and Vinh Phuc.

**28. *Neocollyris (Isocollyris) erichwernerii*** Naviaux and Schüle, 2008 (Fig. 28, 225)

*Neocollyris (Isocollyris) erichwernerii*: Naviaux and Schüle 2008: 455, 456.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux and Schüle 2008: 455).

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 30.vi.1963, 1 male (MPU).

**Distribution.** Vietnam (Vinh Phuc).

**29. *Neocollyris (Isocollyris) moraveci*** Naviaux, 2004 (Fig. 29, 226)

*Neocollyris (Isocollyris) moraveci*: Naviaux 2004: 87-88.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 2004: 87).

**Distribution.** Vietnam (Vinh Phuc).

**30. *Neocollyris (Isocollyris) modica*** Naviaux, 1994 (Fig. 30, 227)

*Neocollyris (Isocollyris) modica*: Naviaux 1995a: 66.

**Published data.** NORTHEAST: Thai Nguyen (Tam Dao) (Naviaux 1995a: 66).

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 10.vi.1963, 1 male (ZISP).

**Distribution.** Vietnam: (Thai Nguyen, Vinh Phuc).

**Remarks.** New provincial record for Vinh Phuc.

#### A2.2.3. Subgenus *Paracollyris* Naviaux, 1994

**31. *Neocollyris (Paracollyris) brevipronotalis*** (Horn, 1929) (Fig. 31, 228)

*Collyris brevi-pronotalis*: Horn 1929: 18, 19.

*Neocollyris (Paracollyris) brevipronotalis*: Naviaux 1995a: 77-79.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 18; Naviaux 1995a: 77).

**Distribution.** Vietnam (Lao Cai).

#### A2.2.4. Subgenus *Neocollyris* s. str.

##### Key to the species of subgenus *Neocollyris*

1. Aedeagus rounded distally; apophysal process of female apical sternum strongly divergent from the base ..... **2**
- Aedeagus pointed distally; apophysal process of female apical sternum parallel, not divergent ..... **3**
- 2(1). Labrum as long as wide; aedeagus strongly curved in the apical part ..... **45. *N. (N.) rufipalpis*** (Chaudoir, 1864)
- Labrum wider than long; aedeagus not strongly curved in the apical part ..... **44. *N. (N.) similis*** (Lesne, 1891)
- 3(1). Metatibiae completely dark ..... **4**
- Metatibiae completely or partly pale ..... **5**
- 4(3). Elytra bright blue ..... **32. *N. (N.) bonellii bonellii*** (Guérin-Méneville, 1834)
- Elytra black, with metallic reflections ..... **39. *N. (N.) intermedia*** Naviaux, 1994

5(3).	Metatibiae completely pale, of same color as metafemora .....	40. <i>N. (N.) fuscitarsis</i> (Schmidt-Goebel, 1846)	
—	Metatibiae partly pale .....		6
6(5).	Pronotum with deep transverse furrows .....	41. <i>N. (N.) pseudosignata</i> (Horn, 1902)	
—	Pronotum smooth or with shallow furrows .....		7
7(6).	Elytra slender, more than three times longer than wide .....		8
—	Elytra stout, less than three times longer than wide .....	42. <i>N. (N.) compacta</i> Naviaux, 1994	
8(7).	Elytra black, with or without metallic reflections .....		9
—	Elytra blue, blue green or violet .....		10
9(8).	Elytra black, parallel sided .....	36. <i>N. (N.) stiengensis</i> (Horn, 1914)	
—	Elytra black with metallic reflections, enlarged in apical fourth .....		
	.....	38. <i>N. (N.) orichalcina orichalcina</i> (Horn, 1896)	
10(8).	Pronotum short, less than two times longer than wide .....	43. <i>N. (N.) deuvei</i> Naviaux, 1991	
—	Pronotum long, more than two times longer than wide .....		11
11(10).	Pronotum elongate, with long collum .....		12
—	Pronotum short, no collum presented .....		13
12(11).	Femora light brownish .....	33. <i>N. (N.) moesta moesta</i> (Schmidt-Goebel, 1846)	
—	Femora dark brownish .....	34. <i>N. (N.) moesta fusca</i> Naviaux, 1994	
13(11).	Distal six antennomeres pale; metatibiae pale at its distal tip only .....		
	.....	37. <i>N. (N.) impressifrons</i> (Chaudoir, 1864)	
—	Distal six antennomeres dark; distal fourth of metatibiae pale .....		
	.....	35. <i>N. (N.) cruentata</i> (Schmidt-Goebel, 1846)	

**32. *Neocollyris (Neocollyris) bonellii bonellii*** (Guérin-Méneville, 1834) (Fig. 32, 229)

*Collyris Bonellii* var. *ortygia*: Horn 1902: 65.

*Collyris Bonellii* var. *Batesi*: Horn 1929: 18.

*Neocollyris (Neocollyris) bonellii bonellii*: Naviaux 1995a: 93-95; Fedorenko and Matalin 2011: 128; Matalin 2015b: 618.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65), Lao Cai (Sa Pa) (Horn 1929: 18); SOUTHEAST: Dong Nai (Ma Da) (Naviaux 1995a: 95), Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 1 male, 1 female (JWGC); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Thanh So' n, 86m, N21° 12' 48.72" E106° 45' 50.76", leg. A. Skale, 18-21.v.2015, 3 females (ASGC), Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21° 9' 57.9" E106° 49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 1 male (JWGC), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21° 23' 3" E105° 42' 44", 60-80m, leg. A. Skale, 12.v.2012, 2 specimens (ASGC), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-9.vi.1996, 4 males (ANLC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male (IRSNB); RED RIVER DELTA: Ha Noi City, leg. J. Strnad, 11.v.1989, 2 males, 1 female (ANLC), Ha Noi City, leg. S. Brantlova, 8-9.vi.1990, 1 female (ANLC), Ha Noi City, Ba Vi National Park, 800m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 21-24.vi.2012, 2 males (MZUF), 1 male, 1 female (EOIC), Ninh Binh, Cuc Phuong, 23-24.v.1986, 1 male (JWGC), Ninh Binh, Cuc Phuong, leg. J. Strnad, 24-25.v.1986, 1 male, 1 female (JWGC), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 1 female (ABIC), Vinh Phuc, Tam Dao Dist., Me Linh Biodiversity Center, N21° 38' 74" E105° 71' 28", 70m, E. Orbach, 3.vi.2013, 2 males (EOIC), Vinh Puc, Me Linh B. S., N21° 23' 38"



E105° 42' 56", day collecting, leg. J. Constant and J. Bresseel, 30.vi.-1.vii.2015, 1 female (IRSNB), Vinh Phuc, Me Linh Biodiversity Station, N21° 23' 18" E105° 42' 46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 5 males, 2 females (CSCA); NORTH CENTRAL COAST: Quang Binh, Minh Hoa distr., Yen Hop, leg. A. Deviatkin, 14-15.iv.1999, 1 female (SIEE), Thanh Hoa, 180 km SSW of Ha Noi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 3 females (ANLC). Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, Rangers HQ, 650m, N16° 4' 37.2" E107° 29' 16.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 20.v.2017, 1 female (ABIC); CENTRAL HIGHLANDS: Gia Lai, Buon Luoi, leg. N. Belyaeva, 21-24.v.1993, 1 female (SIEE); Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 2 males, 2 females (JWGC), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 4 males, 1 female (JWGC), Lam Dong, Da Lat, leg. Dembicky and Pacholatko, v./vi.1994, 3 males (JWGC), Lam Dong, Cat Tien National Park, N11° 26' E107° 26', night collecting, leg. J. Constant and J. Bresseel, 6-16.vii.2012, 1 female (IRSNB), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordon, 11-15.vi.2015, 1 female (MZUF); SOUTHEAST: Ba Ria-Vung Tau, Con Son Isl., Con Dao National Park, N8° 41' 30" E106° 38' 00", day collecting, leg. J. Constant and J. Bresseel, 17-24.vi.2012, 2 males, 3 females (IRSNB), Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male, 1 female (ANLC), Dong Nai, Nam Cat Tien National Park, 19-20.v.1995, leg. A. Napolov, 1 male, 7-20.vi.1995, 1 female, 15-20.vii.1995, 2 females (ANLC).

**Distribution.** Vietnam (Bac Giang, Ba Ria-Vung Tau, Binh Phuoc, Dong Nai, Gia Lai, Ha Noi City, Lam Dong, Lang Son, Lai Chau, Lao Cai, Ninh Binh, Quang Binh, Thai Nguyen, Thanh Hoa, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Hunan, Xizang, Yunnan, Zhejiang), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane, Xiengkhuang), Cambodia (Siem Reap, Koh Kong), Thailand (Chaiyaphum, Chanthaburi, Chiang Mai, Chiang Rai, Chonburi, Kamphaeng Phet, Kanchanaburi, Lampang, Loei, Mae Hong Son, Mukdahan, Nakhon Phanom, Nakhon Ratchasima, Nakhon Sawan, Nakhon Si Thammarat, Phangnga, Phetchaburi, Phitsanulok, Phuket, Sa Kaeo, Surat Thani, Trang, Ubon Ratchathani, Uthai Thani), Myanmar (Shan), Bangladesh, India, Nepal, Pakistan (Punjab), Indonesia (Sumatra, Sumbawa, Sumba, Flores, Borneo, Sulawesi), Malaysia (Malacca, Borneo), Singapore.

**Remarks.** New provincial records for Bac Giang, Ba Ria-Vung Tau, Binh Phuoc, Gia Lai, Ha Noi City, Lai Chau, Lam Dong, Ninh Binh, Quang Binh, Thai Nguyen, Thanh Hoa, Thua Thien-Hue, Tuyen Quang and Vinh Phuc.

### 33. *Neocollyris (Neocollyris) moesta moesta* (Schmidt-Goebel, 1846) (Fig. 33, 230)

*Collyris moesta*: Horn 1914: 140; 1929: 21.

*Neocollyris (Neocollyris) moesta moesta*: Naviaux 1995a: 104, 105.

**Published data.** NORTHEAST: Lao Cai (Horn 1914: 140).

**New records.** NORTHEAST: Thai Nguyen, 40 km NO of Thai Nhuyen, leg. O. Kabakov, 1-10.ix.1962, 1 female (SSBC); Thai Nguyen, 50 km NO of Thai Nguyen, 300m, leg. O. Kabakov, 18-21.vi.1963, 1 male, 2 females, 20.vii.1963, 1 female, 31.vii.1963, 1 female (ZISP); Quang Ninh, 30 km N Hong Hai, 300m, leg. O. Kabakov, 14-20.vi.1962, 1 male, 2 females (ZISP); Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-9.vi.1996, 3 males (ANLC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male, 1 female (IRSNB); RED RIVER DELTA: Vinh Phuc, Me Linh Biodiversity Station, N21° 23' 18" E105° 42' 46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 female (CSCA); NORTH CENTRAL COAST: Thanh Hoa, SW of Bai Thuong, 300m, leg. O. Kabakov, 7-10.vii.1962, 2 males, 1 female (ZISP).

**Distribution.** Vietnam (Lao Cai, Quang Ninh, Thanh Hoa, Tuyen Quang, Vinh Phuc), China (Guangdong, Sichuan, Yunnan), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Phongsaly, Vientiane, Xayabury, Xiengkhuang), Cambodia (Siem Reap), Thailand (Chiang Mai, Chumphun, Kanchanaburi, Krabi, Mae Hong Son, Nakhon Nayok, Nakhon Ratchasima, Nakhon Si Thammarat, Surat Thani, Trang, Ubon Ratchathani), Myanmar, Indonesia (Jawa).

**Remarks.** New provincial records for Quang Ninh, Thanh Hoa, Tuyen Quang und Vinh Phuc.

**34. *Neocollyris (Neocollyris) moesta fusca*** Naviaux, 1994 (Fig. 34, 231)*Neocollyris (Neocollyris) moesta fusca*: Naviaux 1995a: 105; Fedorenko and Matalin 2011: 128.**Published data.** SOUTHEAST: Dong Nai (La Nga) (Naviaux 1995a: 105), Dong Nai (Ma Da) (Naviaux 1995a: 105), Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128), Ho Chi Minh City (Horn 1929: 21).**New records.** SOUTHEAST: Dong Nai, Suen Moc, S. Murzin leg., 10.vii.1991, 1 male (JWGC), Dong Nai, Nam Cat Tien National Park, leg. A. Napolov, 27.vi-3.vii.1995, 1 male (ANLC).**Distribution.** Vietnam (Dong Nai, Ho Chi Minh City,), Laos (Houaphanh, Luangnamtha).**35. *Neocollyris (Neocollyris) cruentata*** (Schmidt-Goebel, 1846) (Fig. 35, 232)*Neocollyris (Neocollyris) cruentata*: Naviaux 1995a: 105, 106; Fedorenko and Matalin 2011: 128.**Published data.** Vietnam (Naviaux 1995a: 106), Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).**New records.** NORTHWEST: Hoa Binh, Yen Thuy distr., Lac Thinh, Cuc Phouc National Park, N20° 23' E105° 34', leg. S. Belokobylskij, 5-6.v.2002, 1 female (ZISP).**Distribution.** Vietnam (Dong Nai, Hoa Binh), China (Yunnan), Laos (Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Savannakhet, Vientiane, Xayabury), Thailand (Chaiyaphum, Chanthaburi, Chiang Mai, Kanchanaburi, Krabi, Nakhon Phanom, Phitsanulok, Sakhon Nakhon, Sukhothai, Trang, Ubon Ratchathani), Myanmar, India (Assam), Indonesia (Sumatra, Borneo).**Remarks.** New provincial records for Dong Nai and Hoa Binh.**36. *Neocollyris (Neocollyris) stiengensis*** (Horn, 1914) (Fig. 36, 233)*Collyris stiengensis*: Horn 1914: 138, 139; 1924: 7.*Neocollyris (Neocollyris) stiengensis*: Naviaux 1995a: 107.**Published data.** SOUTHEAST: Binh Phuoc (Horn 1914: 138; 1924: 7; Naviaux 1995a: 107, ? = Stieng).**New records.** NORTH CENTRAL COAST: Quang Binh, mountains SW of Dong Hoi, 200 m, 19.iii.1963, leg. O. Kabakov (ZISP); CENTRAL HIGHLANDS: Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC), Lam Dong, Da Lat, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC), Gia Lai, ~ 40 km NEE of Pleiku, N14° 12' 11" E108° 18' 54", Kon Ka Kinh National Park, 890m, leg. D. Fedorenko, 9-22.v.2016, 2 males (MPU, SIEE); SOUTHEAST: Dong Nai, Cat Tien National Park, N11° 27' 30" E107° 22' 35", E. Orbach, 13.vi.2015, 1 male (EOIC).**Distribution.** Vietnam (Binh Phuoc, Dong Nai, Gia Lai, Lam Dong, Quang Binh), Cambodia.**Remarks.** New provincial records for Dong Nai, Gia Lai, Lam Dong and Quang Binh.**37. *Neocollyris (Neocollyris) impressifrons*** (Chaudoir, 1864) (Fig. 37, 234)*Neocollyris (Neocollyris) impressifrons*: Naviaux 1995a: 109, 110.**Published data.** Cochinchine (Naviaux 1995a: 109).**New records.** CENTRAL HIGHLANDS: Dak Lak, 10 km S Buon Ma Thuot, 1.v.1986, 2 females (SKRC); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, leg. D. Fedorenko, 13.v.2009, 1 male (MPU).**Distribution.** Vietnam (Dak Lak, Binh Phuoc), Cambodia.**Remarks.** New provincial records for Dak Lak and Binh Phuoc.**38. *Neocollyris (Neocollyris) orichalcina orichalcina*** (Horn, 1896) (Fig. 38, 235)*Collyris orichalcina*: Horn 1914: 137; 1924: 9; 1929: 18.*Neocollyris (Neocollyris) orichalcina*: Naviaux 1995a: 110, 111; Cassola and Probst 1996: 15; Matalin 2015b: 618.**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1914: 17; 1924: 9; 1929: 18; Cassola and Probst 1996: 15); CENTRAL HIGHLANDS: Lam Dong (Da Lat) (Horn 1924: 9).**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF); NORTHEAST: Lao Cai, Sa Pa, leg. A. Olexa, 11-18.vi.1990, 1 female (ANLC), Lao Cai, Sa Pa, 1250m, leg. A. Napolov, 27.v-2.vi.1998, 1 male, 7-20.vi.1996, 5 males, 3 females (ANLC), CENTRAL HIGHLANDS: Kon Tum, Kon



Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-6.v.2016, 1 female (ABIC), Lam Dong, Da Lat, leg. Dembicky and Pacholatko, v./vi.1994, 3 males, 2 females (JWGC), Lam Dong, Bi Doup-Nui Ba Nature Reserve, near Long Lanh, N12° 10' 44" E108° 40' 44", 1400-1600m, leg. D. Fedorenko, 27.iv.-11.v.2009, 1 male (SIEE).

**Distribution.** Vietnam (Hoa Binh, Kon Tum, Lam Dong, Lao Cai), China (?Xizang, Yunnan), Laos (Attapeu, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangprabang, Phongsaly, Xien-gkhuang), Thailand (Chiang Mai, Chiang Rai, Mae Hong Son), Myanmar, India (Naga Hills, Nilgiri Hills, N Manipur).

**Remarks.** New provincial records from Hoa Binh and Kon Tum.

### 39. *Neocollyris (Neocollyris) intermedia* Naviaux, 1994 (Fig. 39, 236)

*Neocollyris (Neocollyris) orichalcina intermedia*: Naviaux 1995a: 111, 112.

*Neocollyris (Neocollyris) intermedia*: Naviaux 2004: 92, 93; Matalin 2015b: 618.

**Published data.** N Vietnam (Naviaux 2004: 93).

**New records.** NORTHEAST: Lao Cai, Cat Cat, nr. Sa Pa, 1300-1400 m, N22° 19' 43" E103° 50' 02", leg. Ahrens, Jäger, Fabrizi, 25./26.v.1999, 1 male (JWGC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male, 2 females (IRSNB); CENTRAL HIGHLANDS: Lam Dong, Loc Tan, Bao Lam, iv.2016, local collectors, 1 female (ABIC).

**Distribution.** Vietnam (Lam Dong, Lao Cai, Tuyen Quang), Laos (Borikhamxay, Champasack, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Sekong, Vientiane, Xiengkhuang), Thailand (Chiang Mai, Lampang, Lamphun, Loei, Nakhon Ratchasima), Myanmar (Kayin).

**Remarks.** New provincial records for Lam Dong, Lao Cai and Tuyen Quang.

### 40. *Neocollyris (Neocollyris) fuscitarsis* (Schmidt-Goebel, 1846) (Fig. 40, 237)

*Collyris fuscitarsis*: Horn 1902: 66; 1929: 18, 21.

*Neocollyris (Neocollyris) fuscitarsis*: Naviaux 1995a: 113, 114.

**Published data.** NORTHEAST: Lang Son (Than Moi) (Horn 1902: 66); RED RIVER DELTA: Ha Noi City (Horn 1929: 18); SOUTHEAST: Dong Nai (Bien Hoa) (Horn 1929: 21).

**New records.** NORTHEAST: Bac Kan, BaBe National Park, N22° 24' 19" E105° 36' 55", day collecting, leg. J. Constant and J. Bresseel, 2-7.vii.2015, 1 female (IRSNB), Ha Giang, W of Bac Quang, mountains, 500m, leg. O. Kabakov, 14.vii.1963, 2 females (ZISP); Lao Cai, upstream of Nam Ma River, Duong Pao, leg. O. Kabakov, 30.v.1963, 1 female (ZISP); Quang Ninh, 30 km N Hong Hai, 300m, leg. O. Kabakov, 14.vi.1962, 1 female (ZISP); Thai Nguyen, 50 km NO of Thai Nguyen, 300m, leg. O. Kabakov, 16.vi-20.vii.1963, 3 females (ZISP), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 26-30.v.1996, 2 males, 2 females (MPU, ANLC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male, 1 female (IRSNB); NORTHWEST: Hoa Binh, Yen Thuy distr., Lac Thinh, Cuc Phouc National Park, N20° 23' E105° 34', leg. S. Belokobylskij, 5-6.v.2002, 1 male, 1 female (ZISP); NORTH CENTRAL COAST: Thanh Hoa, SW of Bai Thuong, 300m, leg. O. Kabakov, 5-7.vii.1962, 2 males, 1 female (ZISP), Thanh Hoa, 180 km SSW of Ha Noi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 1 female (ANLC); CENTRAL HIGHLANDS: Lam Dong, Da Lat, leg. Dembicky and Pacholatko, v./vi.1994, 1 male, 1 female (JWGC), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 2 females (JWGC); RED RIVER DELTA: Vinh Phuc, Tam Dao, leg. Solyannik, 18.v.1967, 1 male (ZISP), Vinh Phuc, Me Linh Biodiversity Station, N21° 23' 18" E105° 42' 46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 female (CSCA); SOUTHEAST: Binh Duong, Phy Giao, leg. A. Napolov, 6-10.x.1995, 1 female (ANLC), Dong Nai, Nam Cat Tien National Park, leg. A. Napolov, 15-20.vii.1995, 1 female (ANLC).

**Distribution.** Vietnam (Bac Kan, Binh Duong, Dong Nai, Ha Giang, Hoa Binh, Lam Dong, Lang Son, Lao Cai, Ha Noi City, Quang Ninh, Thai Nguyen, Thanh Hoa, Tuyen Quang, Vinh Phuc), China (Sichuan, ?Xizang, Yunnan), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Savannakhet, Vientiane, Xiengkhuang), Cambodia (Siem Reap), Thailand (Chiang Mai, Loei, Mae Hong Son, Mukdahan, Nahkon Nayok, Nahkon Ratchasima, Khon Kaen, Phitsanulok, Ratchaburi, Sa Kaeo, Sukhothai, Tak, Trang, Ubon Ratchathani), Myanmar (Shan), Nepal, India (Assam, Sikkim), Malaysia (Malacca), Indonesia (?Jawa, Sumatra).

**Remarks.** New provincial records for Bac Kan, Binh Duong, Ha Giang, Hoa Binh, Lam Dong, Lao Cai, Quang Ninh, Thai Nguyen, Thanh Hoa, Tuyen Quang and Vinh Phuc.

**41. *Neocollyris (Neocollyris) pseudosignata*** (Horn, 1902) (Fig. 41, 238)

*Collyris pseudosignata*: Horn 1902: 70; 1913: 363; 1924: 7.

*Neocollyris (Stenocollyris) pseudosignata*: Naviaux 1995a: 229, 230.

*Neocollyris (Neocollyris) pseudosignata*: Naviaux 2004: 94.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65; 1913: 363; 1924: 7; Naviaux 1995a: 229).

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF); NORTHEAST: Ha Giang, N of Ha Giang, mountains, 800m, leg. O. Kabakov, 5.vii.1962, 1 male (ZISP); Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 2 males, 1 female (MZUF), 1 male, 2 females (EOIC), Phu Tho, ~90 km N of Hanoi, Xuan Son National Park, N21° 07' 58" E104° 55' 45", 300m, 6-15.vi.2014, leg. D. Fedorenko, 4 males, 2 males, 1 female (MPU, SIEE), Lao Cai, Sa Pa, 1250m, leg. native collector, 7-14.vi.1998, 1 male (ANLC), Thai Nguyen, 50 km NO from Thai Nguyen, 300m, leg. O. Kabakov, 16.vi.1963, 1 male (ZISP), Tuyen Quang, NW of Son Duong, Tam Dao mountain ridge, 200m, leg. O. Kabakov, 16.v.1962, 2 males, 2 females (ZISP), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 9-14.vi.1996, 7 males, 3 females (MPU, ANLC), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 female (MZUF), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 3 males, 3 females (IRSNB); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, 800m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 21-24.vi.2012, 1 female (MZUF), 1 male (EOIC), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 1 female (ABIC), Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 3.vi.1962, 1 male, 9.vi.1963, 1 female, 29.viii.1963, 1 male (ZISP); Vinh Phuc, Tam Dao, leg. J. Strnad, 3-11.vi.1985, 1 female (JWGC), Vinh Phuc, Tam Dao, 1800m, L. G. Bezark, v.2013, 1 female (JWGC), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male (CSCA); NORTH CENTRAL COAST: Thanh Hoa, Bai Thuong, 300m, leg. O. Kabakov, 7.vii.1962, 2 females (ZISP); Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 23-28.v.2014, 2 males, 2 females (ABIC); Quang Binh, Minh Hoa district, Yen Hop, leg. A. Deviatkin, 23.iv.1999, 1 male (SIEE).

**Distribution.** Vietnam (Ha Giang, Ha Noi City, Hoa Binh, Lang Son, Lao Cai, Ninh Binh, Phu Tho, Quang Binh, Thai Nguyen, Thanh Hoa, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), Laos (Borikhamxay).

**Remarks.** New provincial records for Ha Giang, Ha Noi City, Hoa Binh, Lao Cai, Ninh Binh, Phu Tho, Quang Binh, Thai Nguyen, Thanh Hoa, Thua Thien-Hue, Tuyen Quang and Vinh Phuc.

**42. *Neocollyris (Neocollyris) compacta*** Naviaux, 1994 (Fig. 42, 239)

*Neocollyris (Neocollyris) compacta*: Naviaux 1995a: 126.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 1995a: 126).

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21° 9' 57.9" E106° 49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 1 male (JWGC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 female (IRSNB); RED RIVER DELTA: Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 29.viii.1963, 1 female (ZISP).

**Distribution.** Vietnam (Bac Giang, Tuyen Quang, Vinh Phuc).

**Remarks.** New provincial records for Bac Giang and Tuyen Quang.

**43. *Neocollyris (Neocollyris) deuvei*** Naviaux, 1991 (Fig. 43, 240)

*Neocollyris (Neocollyris) deuvei*: Naviaux 1991b: 278; 1994: 292.

**Published data.** SOUTHEAST: Ba Ria-Vung Tau (Naviaux 1991b: 278; 1994: 292 = Cap Saint Cacques).

**Distribution.** Vietnam (Ba Ria-Vung Tau).

**44. *Neocollyris (Neocollyris) similis*** (Lesne, 1891) (Fig. 44, 241)*Collyris lesnei*: Horn 1924: 8.*Neocollyris (Neocollyris) similis*: Naviaux 1995a: 146.**Published data.** NORTHEAST: Lao Cai (Horn 1924: 8).**New records.** NORTHEAST: Lao Cai, upstream of Nam Ma River, Duong Pao, leg. O. Kabakov, 28.v.1963, 1 female (ZISP); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC); SOUTHEAST: Dong Nai, Nam Cat Tien National Park, 15-20.v.1995, leg. A. Napolov, 1 female (ANLC).**Distribution.** Vietnam (Dong Nai, Lam Dong, Lao Cai), China (Fujian), Laos (Luangprabang, Phongsaly), Thailand (Loei, Yala), Myanmar, India (Assam, Madras), ?Nepal.**Remarks.** New provincial records for Dong Nai and Lam Dong.**45. *Neocollyris (Neocollyris) rufipalpis*** (Chaudoir, 1864) (Fig. 45, 242)*Collyris (Neocollyris) rufipalpis*: Horn 1902: 66; 1913: 363; 1924: 8.*Neocollyris (Neocollyris) rufipalpis*: Naviaux 1995a: 147, 148; Matalin 2015b: 618.**Published data.** NORTHEAST: Lang Son (Than Moi) (Horn 1902: 66; 1913: 363; 1924: 8).**Distribution.** Vietnam (Lang Son), China (Fujian, Guangdong, Hainan, Jiangxi, Yunnan, Zhejiang), Laos (Borikhamxay, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Xayabury), Cambodia, Thailand (Chiang Mai, Phitsanulok, Phrae, Ratchaburi), Myanmar, India (Assam), Nepal, Malaysia (Malacca, Borneo), Indonesia (Jawa).**A2.2.5. Subgenus *Orthocollyris*** Naviaux, 1995**Key to the species of subgenus *Orthocollyris*** Naviaux, 1995

- 1. Legs completely brownish ..... **48. *N. (O.) labiopalpalis*** (Horn, 1932)
- Legs not completely brownish ..... **2**
- 2(1). Metatarsi, apical half of metatibia and apical 7 segments of antennae brownish ..... **49. *N. (O.) rapillyi*** Naviaux, 1992
- Legs and antennae black ..... **3**
- 3(2). Ground color blue violett; transverse furrows on pronotum very shallow ..... **46. *N. (O.) crassicornis crassicornis*** (Dejean, 1825)
- Ground color blackish; deep transverse furrows on pronotum ..... **47. *N. (O.) karli*** Naviaux, 1996

**46. *Neocollyris (Orthocollyris) crassicornis crassicornis*** (Dejean, 1825) (Fig. 46, 243)*Collyris crassicornis subclavata*: Horn 1914: 137; 1924: 9.*Collyris crassicornis*: Horn 1929: 18, 21.*Neocollyris (Orthocollyris) crassicornis crassicornis*: Naviaux 1995a: 149, 150; Matalin 2015b: 619.**Published data.** ? Dang-Trua (Horn 1914: 137; 1924: 9); NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 18); MEKONG DELTA: Tien Giang (Go Cong) (Horn 1929: 21).**New records.** NORTHEAST: Ha Giang, W of Bac Quang, mountains, 500m, leg. O. Kabakov, 13.vii.1963, 1 male (ZISP); NORTH CENTRAL COAST: Thanh Hoa, Bai Thuong, 300m, leg. O. Kabakov, 5.vii.1962, 1 female (ZISP).**Distribution.** Vietnam (Ha Giang, Lao Cai, Thanh Hoa, Tien Giang), China (Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Jiangxi, ?Xizang, Yunnan, Zehjiang), Taiwan, Laos (Borikhamxay, Luangnamtha, Luangprabang, Phongsaly, Vientiane, Xiengkhuang), Thailand (Khon Kaen, Mae Hong Son, Nakhon Ratchasima, Rayong), Myanmar (Shan), India (Anamalai, Madras, Kumaun, Uttar Pradesh, Arunachal Pradesh), Sri Lanka, Bangladesh, Nepal, Bhutan, Malaysia (Malacca), Indonesia (Sumatra, Jawa, Bali).**Remarks.** New provincial records for Ha Giang and Thanh Hoa.

**47. *Neocollyris (Orthocollyris) karli*** Naviaux, 1996 (Fig. 47, 244)*Neocollyris (Orthocollyris) karli*: Naviaux 1996a: 230; 2004: 98-100.**Published data.** CENTRAL HIGHLANDS: Gia Lai (An Khe/Buion Luoi) (Naviaux 1996a: 230; 2004: 98).**Distribution.** Vietnam (Gia Lai).**48. *Neocollyris (Orthocollyris) labiopalpalis*** (Horn, 1932) (Fig. 48, 245)*Collyris labiopalpalis*: Horn 1932: 205.*Neocollyris (Orthocollyris) labiopalpalis*: Naviaux 1995a: 157, 158.**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1932: 205; Naviaux 1995a: 157).**New records.** NORTHWEST: Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 1 male (MPU).**Distribution.** Vietnam (Lao Cai, Son La).**Remarks.** New provincial record for Son La.**49. *Neocollyris (Orthocollyris) rapillyi*** Naviaux, 1992 (Fig. 49, 246)*Neocollyris rapillyi*: Naviaux 1992: 42.*Neocollyris (Orthocollyris) rapillyi*: Naviaux 1995a: 160, 161.**Published data.** NORTHWEST: Hoa Binh (Naviaux 1992a: 42; 1995a: 160).**New records.** RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 female (EOIC).**Distribution.** Vietnam (Ha Noi City, Hoa-Binh).**Remarks.** New provincial record for Ha Noi City.**A2.2.6. Subgenus *Leptocollyris*** Naviaux, 1995**Key to the species of subgenus *Leptocollyris*** Naviaux, 1995

- |       |  |  |
|-------|--|--|
| 1.    | Labrum partly pale .....   | 2  |
| —     | Labrum completely dark .....   | 7  |
| 2(1). | Front of pronotum with a long distinct collum .....  | <b>55. <i>N. (L.) variicornis</i></b> (Chaudoir, 1864)             |
| —     | Front of pronotum slightly constricted .....   | 3  |
| 3(2). | Lateral margin of elytral shoulders brownish yellow .....  | 4  |
| —     | Lateral margin of elytra dark .....  | 5  |
| 4(3). | Pale maculation reaching the scutellum. Metathorax and hind coxae yellow except lateral margin ..... | <b>60. <i>N. (L.) ampliata</i></b> Naviaux, 1995                   |
| —     | Pale maculation restricted to lateral margin. Metathorax and hind coxae black .....                  | <b>53. <i>N. (L.) rogeri</i></b> Shook and Wu, 2006                |
| 5(3). | Labial- and maxillarpalpi dark .....   | <b>52. <i>N. (L.) gomyi</i></b> Naviaux, 2008                      |
| —     | Labial- and maxillarpalpi pale .....   | 6  |
| 6(5). | Color of elytra blue green, sometimes violet .....   | <b>50. <i>N. (L.) linearis linearis</i></b> (Schmidt-Goebel, 1846) |
| —     | Color of elytra greenish or brown with golden reflection .....                                       | <b>51. <i>N. (L.) discretegrossesculpta</i></b> (Horn, 1942)       |
| 7(1). | Metatarsi fully dark .....   | <b>54. <i>N. (L.) concinna</i></b> Naviaux, 1995                   |
| —     | Metatarsi pale except two apical joints .....  | 8  |
| 8(7). | Front of pronotum with distinct collum .....   | 9  |
| —     | Front of pronotum slightly constricted .....   | 11   |



- 9(8). Metatibiae completely black ..... **63. *N. (L.) globicollis*** Naviaux, 1995  
 — Metatibiae pale distally ..... **10**
- 10(9). Front of pronotum with a long collum. Second maxillar palpomere with one-two long setae except two apical ones, apical maxillar palpomere of males sharply dilated ..... **61. *N. (L.) cylindripennis*** (Chaudoir, 1864)  
 — Front of pronotum with a short collum. Second maxillar palpomere with five-six long setae except two apical ones, apical maxillar palpomere of males semioval ..... **62. *N. (L.) laosensis*** Naviaux, 1999
- 11(8). Labial and maxillar palpi dark ..... **57. *N. (L.) juergenwiesneri*** Naviaux, 1995  
 — Labial and maxillar palpi pale ..... **12**
- 12(11). Head oval in shape, very flat in lateral view ..... **56. *N. (L.) subtilis subtilis*** (Chaudoir, 1863)  
 — Head triangular in size, thicker in lateral view ..... **13**
- 13(12). Color of elytra blue ..... **58. *N. (L.) variitarsis*** (Chaudoir, 1860)  
 — Color of elytra green ..... **59. *N. (L.) minuta*** Naviaux, 1995

**50. *Neocollyris (Leptocollyris) linearis linearis*** (Schmidt-Goebel, 1846) (Fig. 50, 247)

*Collyris (Neocollyris) linearis tenuicornis*: Horn 1913: 362; 1929: 18.

*Collyris linearis*: Horn 1924: 5.

*Neocollyris (Leptocollyris) linearis linearis*: Naviaux 1995a: 163, 164; Fedorenko and Matalin 2011: 128; Matalin 2015b: 619.

**Published data.** NORTHEAST: Ha Giang, W of Bac Quang, mountains, 500m, leg. O. Kabakov, 15.vii.1963, 1 male (ZISP), Lao Cai (Sa Pa) (Horn 1913: 362; 1924: 5; 1929: 18); SOUTHEAST: Ho Chi Minh City (Horn 1913: 362; 1924: 5 = Saigon); Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).

**New records.** NORTHWEST: Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N20° 71' 18" E104° 99' 35", 750m, E. Orbach, 12.vi.2013, 1 female (EOIC), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 4 males, 3 females (MZUF); NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Skale, 6-10.v.2013, 1 specimen (ASGC), Lao Cai, near Sa Pa, 1600-2000m, leg. O. Kabakov, 5-11.viii.1962, 4 males, 25.v-10.vi.1963, 1 male, 4 females (ZISP), Lao Cai, Sa Pa, leg. S. Brantlova, 11-19.vi.1990, 1 male (MPU), Lao Cai, near Sa Pa, Hoang Lien Son National Park, N22° 20' E103° 50', 1250m, leg. A. Napolov, 4-14.vi.1998, 4 males 5 females (ANLC), Lao Cai, Sa Pa env., N22° 19' 52" E103° 50' 35", 1630-1680m, leg. Ahrens, Jäger, Fabrizi, 25./26.v.1999, 1 female (JWGC), Lao Cai, Cat Cat, nr. Sa Pa, 1300-1400 m, N22° 19' 43", E103° 50' 2", leg. Ahrens, Jäger, Fabrizi, 25./26.v.1999, 2 males, 1 female (JWGC), 1 male (JSGC), Lao Cai, Fan-Si-Pan Mountain, 2200-2400m, leg. O. Kabakov, 2.vi.1962, 1 female (ZISP), Lao Cai, Fan-Si-Pan Mountain, 2300m, leg. V. Sinjaev, A. Siminov, 20.v.1994, 1 male (PURC), Lao Cai, Sa Pa distr., Fan-Si-Pan Mountain, N22° 18' 56" E103° 49' 35", 1400-1500m, leg. N. L. Orlov, 9.v-6.vi.1999, 4 males, 1 female (ZISP), Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 1 male (EOIC), Quang Ninh, Hoanh Bo, leg. O. Kabakov, 10.iv.1962, 1 female (ZISP), Thai Nguyen, 50 km NO of Thai Nguyen, 300m, leg. O. Kabakov, 12-15.v.1963, 2 females, 21-27.vi.1963, 2 females (ZISP), Tuyen Quang, NW of Son Duong, Tam Dao mountain ridge, 200-300m, leg. O. Kabakov, 16.v.1962, 2 males, 3 females (ZISP), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-14.vi.1996, 7 males, 6 females (ANLC); RED RIVER DELTA: Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", night collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 7 females (IRSNB), Vinh Phuc, Tam Dao, 900-1000m, leg. O. Kabakov, 3.vi.1962, 1 female, 1.vii.1962, 1 male, 30.vi.1963, 1 female, 29.viii.1963, 1 male, 2 females (ZISP); Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 1 female (MZUF); NORTH CENTRAL COAST: Ha Tinh, W of Kim Cuong, leg. O. Kabakov, 31.iii.1963, 1 female (ZISP), Nghe An, NO Con Cuong, 400m, leg. O. Kabakov, 22.iv.1962, 2 females (ZISP), Quang Binh, Minh Hoa distr., Yen Hop, leg. A. Deviatkin, 14-

15.iv.1999, 1 male (SIEE), Thanh Hoa, SW of Bai Thuong, 300m, leg. O. Kabakov, 7.vii.1962, 1 male, 2 females (ZISP, MPU), Thanh Hoa, W of Bai Thuong near Long Chanh, leg. O. Kabakov, 18.iv.1963, 1 female (ZISP), Thanh Hoa, 180 km SSW of Ha Noi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 1 female (ANLC), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 850m, N16° 6' 25.2" E107° 26' 16.8", leg. E. Bartolozzi, S. Bambi, A. Bandinelli, E. Orbach, V. Sbordon, 20-25.v.2017, 5 males (MZUF), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 300m, N16° 3' 21.6" E107° 28' 48", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 21.v.2017, 1 male, 1 female (ABIC); CENTRAL HIGHLANDS: Gia Lai, Buon Luoi, 40 km N An Khe, 15.vi.1985, 1 male (JWGC), Gia Lai, Buon Luoi, leg. A. Gorochov, 5.v.1995, 1 female (ZISP), Kon Tum, Dak Glei, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 1 male (ABIC), Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 5 males, 1 female (JWGC), Lam Dong, Lang Bian, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC), Lam Dong, Cat Tien National Park, N11° 26' E107° 26', night collecting, leg. J. Constant and J. Bresseel, 6-16.vii.2012, 1 male (IRSNB), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordon, 11-15.vi.2015, 1 female (MZUF), Lam Dong, Bi Doup National Park, N12° 10' 55.2" E108° 40' 48", 1456m, L. G. Bezark, 6-10.vi.2015, 1 male (CSCA), Lam Dong, Lac Duong Dist., Bi Doup, Nui Ba National Park, N12° 10' 13" E108° 41' 51", E. Orbach, 17.vi.2015, 2 males (EOIC); SOUTHEAST: Ba Ria-Vung Tau, Con Son Isl., Con Dao National Park, N8° 41' 30" E106° 38' 00", day collecting, leg. J. Constant and J. Bresseel, 17-24.vi.2012, 4 males, 6 females (IRSNB), Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 7-21.vi.1995, 1 female (ANLC), Dong Nai, Dong Nai Biosphere Reserve, N11° 18' E107° 06', leg. J. Constant and J. Bresseel, 25.vi.-6.vii.2012, 4 males (IRSNB).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Cao Bang, Dong Nai, Gia Lai, Ha Giang, Ha Noi City, Ha Tinh, Hoa Binh, Ho Chi Minh City, Kon Tum, Lam Dong, Lao Cai, Nghe An, Phu Tho, Quang Binh, Quang Ninh, Thua Thien-Hue, Tuyen Quang, Thai Nguyen, Vinh Phuc), China (Jiangxi, ?Xizang, Yunnan), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Xiengkhuang), Cambodia (Siem Reap, Koh Kong), Thailand (Chaiyaphum, Chantaburi, Chiang Mai, Kanchanaburi, Krabi, Loei, Mae Hong Son, Mukdahan, Nakhon Phanom, Nakhon Ratchasima, Nakhon Si Thammarat, Phangnga, Phetchaburi, Phitsanulok, Sakon Nakhon, Sukhothai, Surat Thani, Tak, Trang, Ubon Ratchathani, Uthai Thani, Yasothorn), Myanmar (Kachin), Bhutan.

**Remarks.** New provincial records for Ba Ria-Vung Tau, Cao Bang, Gia Lai, Ha Giang, Ha Noi City, Ha Tinh, Hoa Binh, Kon Tum, Lam Dong, Nghe An, Phu Tho, Quang Binh, Quang Ninh, Thua Thien-Hue, Tuyen Quang, Thai Nguyen and Vinh Phuc. Sawada and Wiesner (2003: 48) and Wiesner (2013b: 108) listed *N. (I.) l. tenuicornis* (Chaudoir, 1864) from Vietnam. As no actual records are known up to now, these listings are kept as erroneous.

### 51. *Neocollyris (Leptocollyris) discretegrossesculpta* (Horn, 1942) (Fig. 51, 248)

*Collyris linearis discrete-grossesculpta*: Horn 1942: 140.

*Neocollyris (Leptocollyris) discretegrossesculpta*: Naviaux 1995a: 168; Cassola and Probst 1996: 15.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Cassola and Probst 1996: 15); NORTHWEST: Hoa Binh (Horn 1942: 140; Naviaux 1995a: 168).

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 4 males (MZUF); NORTHEAST: Lao Cai, Hoang Lien National Park, -Tram Ton, 1800-2050m, N22° 21' 11.82" E103° 46' 30.78", leg. A. Skale, 13-16.v.2015, 1 male, 1 female (ASGC), Tuyen Quang, 160 km NNW from Ha Noi, env. of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-14.vi.1996, 6 males, 6 female (MPU, ANLC); RED RIVER DELTA: Vinh Phuc, Tam Dao, Vit. Kuban leg., 2-11.vi.1985, 1 male (JWGC), Vinh Phuc, Tam Dao, 900m, A. Olexa leg., 3-11.vi.1985, 1 male, 2 females (JWGC), Vinh Phuc, Tam Dao, J. Strnad leg., 3-11.vi.1985, 1 male, 1 female (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 1 specimen (ASGC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 1 female (MZUF), Vinh Phuc, Tam Dao National Park, N23° 27' 37.08" E105° 38' 31.236", 1027m, L. G. Bezark, 1-4.vi.2013, 2 females (CSCA).



**Distribution.** Vietnam (Hoa Binh, Lao Cai, Tuyen Quang, Vinh Phuc), Laos (Attapeu, Luangnamtha), Thailand (Nakhon Ratchasima), Myanmar (Kachin).

**Remarks.** New provincial records for Tuyen Quang, and Vinh Phuc.

**52. *Neocollyris (Leptocollyris) gomyi*** Naviaux, 2008 (Fig. 52, 249)

*Neocollyris (Leptocollyris) gomyi*: Naviaux 2008: 132, 133.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Nam Cat Tien) (Naviaux 2008: 132); SOUTH-EAST: Dong Nai (Ma Da forest) (Naviaux 2008: 132).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 female (EOIC), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 315m, N16° 03' 22" E107° 28' 50", E. Orbach, 27.v.2017, 1 female (EOIC); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC); SOUTHEAST: Dong Nai, Nam Cat Tien National Park, leg. D. Fedorenko, 18-19.v.2004, 1 male(MPU), Dong Nai, Cat Tien National Park, N11° 27' 37" E107° 22' 29", leg. E. Orbach, 14.vi.2015, 2 males (EOIC).

**Distribution.** Vietnam (Dong Nai, Lam Dong, Thua Thien-Hue).

**Remarks.** New provincial record for Thua Thien-Hue.

**53. *Neocollyris (Leptocollyris) rogeri*** Shook and Wu, 2006 (Fig. 53, 250)

*Neocollyris (Leptocollyris) rogeri*: Shook and Wu, 2006: 55, 56.

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF), Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22° 74' 12" E104° 93' 95", 970m, E. Orbach, 8-12.vi.2013, 1 male, 3 females (EOIC), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 9-12.vi.2013, 1 female (MZUF); NORTHEAST: Lao Cai, near Sa Pa, Hoang Lien Son National Park, N22° 20' E103° 50', 1250m, leg. A. Napolov, 7-14.vi.1998, 1 male (MPU), Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 male, 6 females (MZUF), 5 males, 4 females (EOIC), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 female (MZUF), Tuyen Quang, Na Hang Dist., Na Hang Nature Reserve, N22° 35' 20" E105° 42' 24", 215m, E. Orbach, 5-7.vi.2013, 1 male (EOIC); RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 male, 1 female (EOIC), Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", day collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 2 males (IRSNB), Ninh Binh, Cuc Phuong National Park, 200m, N20° 19' 21" E105° 37' 36", leg. L. Bartolozzi, G. Chelazzi, A. Bandinelli, S. Bambi, F. Fabiano, 3-5.v.2014, 1 male, 1 female (MZUF), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 5 males, 5 females (ABIC), Ninh Binh, Cuc Phuong National Park, N20° 21' 1" E105° 35' 35", hand collected, leg. M. Hauser and N. von Ellenrieder, 13-17.vi.2014, 12 males, 6 females (JWGC), Ninh Binh, Cuc Phuong National Park, N20° 17' 34.32" E105° 40' 3.12", 270m, leg. R. Gerstmeier, 22.v.2015, 4 males, 3 females (JWGC); l. c. leg. A. Skale, 22-24.v.2015, 3 males, 1 female (ASGC), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male (CSCA); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 23-28.v.2014, 1 female (ABIC).

**Distribution.** Vietnam (Ha Noi City, Hoa Binh, Lao Cai, Ninh Binh, Phu Tho, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Yunnan).

**Remarks.** New state record for Vietnam and new provincial records for Ha Noi City, Hoa Binh, Lao Cai, Ninh Binh, Phu Tho, Thua Thien-Hue, Tuyen Quang and Vinh Phuc.

**54. *Neocollyris (Leptocollyris) concinna*** Naviaux, 1995 (Fig. 54, 251)

*Neocollyris (Leptocollyris) concinna*: Naviaux 1995c: 444; 2004: 104-106.

**Published data.** NORTHWEST: Hoa Binh (Naviaux 1995c: 444; 2004: 104).

**New records.** NORTH CENTRAL COAST: Thanh Hoa, 180 km SSW of Ha Noi, 40 km SW of Thanh Hoa, Ben En National Park, 50m, leg. A. Napolov, 23.vii-2.ix.1997, 1 male (ANLC).

**Distribution.** Vietnam (Hoa Binh, Thanh Hoa).

**Remarks.** New provincial record for Thanh Hoa.

**55. *Neocollyris (Leptocollyris) variicornis*** (Chaudoir, 1864) (Fig. 55, 252)

*Neocollyris (Leptocollyris) variicornis*: Naviaux 1995a: 176, 177; Cassola and Probst 1996: 15; Matalin 2015b: 619.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Cassola and Probst 1996: 15).

**New records.** NORTHEAST: Lao Cai, Cat Cat, nr. Sa Pa, N22° 19' 52" E103° 50' 35", 1630-1680 m, leg. Fabrizi, Jäger, Ahrens, 23-27.v.1999, 1 female (JWGC), Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 1 male (EOIC); CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, Kon Ka Kinh National Park, N14° 12' 11" E108° 18' 54", 890m, leg. D. Fedorenko, 9-22.v.2016, 2 males (MPU, SIEE), Lam Dong S Vietnam, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 2 males, 4 females (JWGC), Lam Dong, 25 km NNW of Bao Loc, near Loc Bao, N11° 44' 18" E107° 42' 08", 800m, leg. D. Fedorenko, 5-20.iv.2013, 1 male (SIEE).

**Distribution.** Vietnam (Gia Lai, Lam Dong, Lao Cai, Phu Tho), China (?Xizang, Yunnan), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Sekong, Vientiane, Xiengkhuang), Thailand (Chantaburi, Chiang Mai, Chiang Rai, Kamphaeng Phet, Kanchanaburi, Krabi, Lampang, Loei, Mae Hong Son, Nakhon Nayok, Nakhon Phanom, Nakhon Ratchasima, Phangnga, Phitsanulok, Ranong, Ratchaburi, Sukhothai, Surat Thani, Tak, Trang, Trat, Ubon Ratchathani, Yala, Yasothon), Myanmar (Kachin), India (Sikkim, Assam, Meghalaya, Arunachal Pradesh, Darjeeling, Andaman Is.), Nepal.

**Remarks.** New provincial records for Gia Lai, Lam Dong and Phu Tho.

**56. *Neocollyris (Leptocollyris) subtilis subtilis*** (Chaudoir, 1863) (Fig. 56, 253)

*Neocollyris (Leptocollyris) subtilis subtilis*: Fedorenko and Matalin 2011: 127, 128.

**Published data.** SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128).

**New records.** NORTH CENTRAL COAST: Nghe An, NO Con Cuong, river valley, leg. O. Kabakov, 20.iv.1962, 1 female (ZISP); CENTRAL HIGHLANDS: Gia Lai, Kon Tum plateau, 60 km NE of An Khe, leg. Darevsky, vii-viii.1982, 1 female (ZISP), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 3 males, 4 females (JWGC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordon, 11-15.vi.2015, 2 males, 1 female (MZUF); SOUTHEAST: Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 7-21.vi.1995, 2 males, 2 females (ANLC), Dong Nai, Nam Cat Tien National Park, N11° 27' 30" E107° 22' 35", E. Orbach, 13.vi.2015, 1 female (EOIC), Dong Nai, Cat Tien National Park, N11° 27' 37" E107° 22' 29", E. Orbach, 14.vi.2015, 1 male (EOIC).

**Distribution.** Vietnam (Nghe An, Dong Nai, Gia Lai, Lam Dong), Laos (Borikhamxay, Champasack, Oudomxay, Phongsaly, Vientiane), Thailand (Nakhon Si Thammarat, Surat Thani, Trang), Malaysia (Malacca), Indonesia (Sumatra).

**Remarks.** New provincial records for Gia Lai, Lam Dong and Nghe An.

**57. *Neocollyris (Leptocollyris) juergenwiesneri*** Naviaux, 1995 (Fig. 57, 254)

*Neocollyris (Leptocollyris) juergenwiesneri*: Naviaux 1995b: 175; 2004: 106-107.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Bao Loc) (Naviaux 1995b: 175; 2004: 106).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, District, 850m, N16° 6' 25.2" E107° 26' 16.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 20-25.v.2017, 1 female (ABIC).

**Distribution.** Vietnam (Lam Dong, Thua Thien-Hue).

**Remarks.** New provincial record for Thua Thien-Hue.

**58. *Neocollyris (Leptocollyris) variitarsis*** (Chaudoir, 1860) (Fig. 58, 255)

*Collyris (Neocollyris) variitarsis*: Horn 1913: 362; 1914: 140; 1924: 5; Matalin 2014: 298-300.

*Neocollyris (Leptocollyris) variitarsis variitarsis*: Naviaux 1995a: 182, 183; Cassola and Probst 1996: 15.

**Published data.** NORTHWEST: Hoa Binh (Horn 1924: 5); NORTHEAST: Cao Bang (Bao Lac) (Horn

1914: 140; 1924: 5), Lao Cai (Sa Pa) (Cassola and Probst 1996: 15), Lao Cai (Hoang Lien Son Mountain Range, Hoang Lien National Park., Sa Pa vill. environs) (Matalin 2014: 298), Lao Cai (mountains W Sa Pa) (Matalin 2014: 298), Phu Tho (Tan Son) (Matalin 2014: 298), Quang Ninh (30 km N Hong Gai) (Matalin 2014: 298), Tuyen Quang (Horn 1913: 362; 1924: 5), Tuyen Quang (SE Son-Duong) (Matalin 2014: 298), Tuyen Quang (160 km NNW Ha Noi, NE env. of Na Hang) (Matalin 2014: 300); NORTH CENTRAL COAST: Nghe An (NE Con Cuong) (Matalin 2014: 300), Nghe An (W Muong Sen) (Matalin 2014: 300); CENTRAL HIGHLANDS: Dak Lak (Chu Yang Sin National Park) (Matalin 2014: 300).

**New records.** NORTHWEST: Hoa binh, J. Hórák leg., 4-7.vi.1986, 1 female (JWGC), Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 1 male (ZISP); NORTHEAST: Cao Bang, vic. Vin Den, Núi Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Skale, 6-10.v.2013, 1 specimen (ASGC), Tuyen Quang, Na Hang Dist., Na Hang Nature Reserve, N22° 35' 20" E105° 42' 24", 215m, E. Orbach, 5-7.vi.2013, 1 female (EOIC); NORTH CENTRAL COAST: Nghe An, mountains NO Kua Rao (= *Tuong Duong*), 500m, leg. O. Kabakov, 25.ix.1962, 1 male (ZISP), Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 300m, N16° 3' 21.6" E107° 28' 48", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 21.v.2017, 1 female (ABIC); CENTRAL HIGHLANDS: Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 11 males, 4 females (JWGC).

**Distribution.** Vietnam (Cao Bang, Dak Lak, Hoa Binh, Lam Dong, Lao Cai, Nghe An, Phu Tho, Quang Ninh, Son La, Thua Thien-Hue, Tuyen Quang), China (Guangxi, Yunnan), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane, Xiengkhuang), Thailand (Chiang Mai, Chiang Rai, Kanchanaburi, Loei, Nakhon Ratchasima, Phitsanulok, Sukhothai), Myanmar, India (Bengal, Meghalaya, Arunachal Pradesh), Nepal.

**Remarks.** New provincial records for Lam Dong and Thua Thien-Hue.

#### 59. *Neocollyris (Leptocollyris) minuta* Naviaux, 1995 (Fig. 59, 256)

*Neocollyris (Leptocollyris) variitarsis minuta*: Naviaux 1995a: 183, 184; Fedorenko and Matalin 2011: 128.

*Neocollyris (Leptocollyris) minuta*: Matalin 2014: 298-300.

**Published data.** SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128; Matalin 2014: 300).

**Distribution.** Vietnam (Dong Nai), Thailand (Phuket, Ranong, Surat Thani, Trang), Malaysia (Malacca), Indonesia (Sumatra).

#### 60. *Neocollyris (Leptocollyris) ampliata* Naviaux, 1995 (Fig. 60, 257)

*Neocollyris (Leptocollyris) ampliata*: Naviaux 1995b: 175; 2004: 110-112.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 1995b: 175; 2004: 110).

**New records.** NORTHEAST: Lao Cai, Hoang Lien Son Mountain Ridge, Fan-Si-Pan Mountain, near Tram Tong, 1950-2100m, leg. D. Fedorenko, 15-30.vii.2007, 1 female (SIEE); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, N21° 4' 4" E105° 21' 30", leg. J. Constant and J. Bressel, 25-29.vi.2015, 2 males (IRSNB), Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 1.vii.1962, 1 male, 1 female, 9.vi.1963, 1 female (ZISP, MPU), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male (JWGC).

**Distribution.** Vietnam (Ha Noi City, Lao Cai, Vinh Phuc).

**Remarks.** New provincial records for Ha Noi City and Lao Cai.

#### 61. *Neocollyris (Leptocollyris) cylindripennis* (Chaudoir, 1864) (Fig. 61, 258)

*Collyris cochinchinensis*: Horn 1914: 137, 138; 1924: 7.

*Neocollyris (Leptocollyris) cylindripennis*: Naviaux 1995a: 185, 186; Matalin 2015b: 618.

**Published data.** SOUTHEAST: Binh Phuoc (Horn 1914: 137; 1924: 7; Naviaux 1995a: 186, ?= Stieng).

**New records.** NORTHEAST: Lao Cai, near Sa Pa, Hoang Lien Son National Park, N22° 20' E103° 50', 1250m, leg. A. Napolov, 4.vi.1998, 1 female (ANLC); CENTRAL HIGHLANDS: Gia Lai, ~ 55 km ENE of Pleiku, Kon Ka Kinh National Park, N14° 17' 45" E108° 26' 57", 600m, leg. D. Fedorenko, 8-20.v.2017, 1 female, (SIEE).

**Distribution.** Vietnam (Binh Phuoc, Gia Lai, Lao Cai), China (Guangxi, Guizhou, Hunan), Laos (Borikhamxay, Houaphanh, Xiengkhuang), Cambodia, Thailand (Kamphaeng, Kanchanaburi, Nakhon

Sawan, Phet), Myanmar, Malaysia (Malacca).

**Remarks.** New provincial records for Gia Lai and Lao Cai.

**62. *Neocollyris (Leptocollyris) laosensis*** Naviaux, 1999 (Fig. 62, 259)

**New records.** NORTHEAST: Yen Bai, Soui Giang, leg. E. Sugonjaev, 5.vii.2000, 1 male (ZISP).

**Distribution.** Vietnam (Yen Bai), Laos (Bokeo, Luangnamtha).

**Remarks.** New state record for Vietnam and new provincial record for Yen Bai.

**63. *Neocollyris (Leptocollyris) globicollis*** Naviaux, 1995 (Fig. 63, 260)

*Neocollyris (Leptocollyris) globicollis*: Naviaux 1995b: 175.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Bao Loc) (Naviaux 1995b: 175).

**Distribution.** Vietnam (Lam Dong).

**A2.2.7. Subgenus *Mesocollyris*** Naviaux, 1995

**64. *Neocollyris (Mesocollyris) kabakovi*** Naviaux and Matalin, 2003 (Fig. 64, 261)

*Neocollyris (Mesocollyris) kabakovi*: Naviaux and Matalin 2003: 126.

**Published data.** NORTH CENTRAL COAST: Gia Lai (Buon Luoi) (Naviaux and Matalin 2003: 126).

**Distribution.** Vietnam (Gia Lai).

**A2.2.8. Subgenus *Stenocollyris*** Naviaux, 1995

**Key to the species of subgenus *Stenocollyris*** Naviaux, 1995

1. Metatarsi and apical part of metatibiae yellowish; elytra with transverse yellow fascia in the middle ..... **67. *N. (S.) signata*** (Horn, 1902)
- Metatarsi and metatibiae brownish black; elytra without yellow fascia ..... **2**
- 2(1). Elytral sculpture smooth, except five or six deep wrinkles in the middle ..... **65. *N. (S.) rubens*** (Bates, 1878)
- Elytral sculpture very coarse all along ..... **66. *N. (S.) compressicollis*** (Horn, 1909)

**65. *Neocollyris (Stenocollyris) rubens*** (Bates, 1878) (Fig. 65, 262)

**New records.** NORTHEAST: Lao Cai, near Sa Pa, 2000m, leg. O. Kabakov, 4.vi.1963, 1 female (ZISP).

**Distribution.** Vietnam (Lao Cai), India (Assam).

**Remarks.** New state record for Vietnam and new provincial record for Lao Cai.

**66. *Neocollyris (Stenocollyris) compressicollis*** (Horn, 1909) (Fig. 66, 263)

*Collyris compressicollis*: Horn 1929: 18.

*Neocollyris (Stenocollyris) compressicollis*: Naviaux 1995a: 227, 228.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 18).

**New records.** NORTHEAST: Bac Kan, Cho Moi distr., Quang Chu, leg. A. Gorochoy, 15-23.iv.1986, 1 female (ZISP); Lao Cai, Fan-Si-Pan Mountain, 2300m, leg. V. Sinjaev, A. Siminov, 20.v.1994, 1 male, 1 female (PURC); Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 1 male, 1 female (EOIC), Phu Tho, Thanh Son distr., Xuan Son National Park, N21°08'20" E104°56'15", 300-400m, leg. T.V. Galinskaya, 18.x.2014, 1 female (MPU), Phu Tho, ~90 km W of Ha Noi City, Xuan Son National Park, N21°07'01" E104°56'39", 400-700m, leg. D. Fedorenko, 6-15.xi.2014, 1 male (MPU), Thai Nguyen, 50 km NO from Thai Nguyen, 300m, leg. O. Kabakov, 15.vi.1962, 1 female (ZISP); Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 9-14.vi.1996, 3 males (MPU, ANLC); NORTHWEST: Hoa Binh, Mai Chau distr., Ha Son Binh, leg. S. Belokobylskij, 4.xi.1990, 1 male (MPU), Hoa Binh, Mai Chau distr., Pa Co, Xa Linh, N20°44' E104°55', 1120m, leg. S. Belokobylskij, 23.iv.2002, 3 males, 4 females (ZISP); RED RIVER DELTA: Ninh Binh, Cuc Phuong,



J. Strnad lgt., 2-11.v.1991, 3 males (JWGC), Ninh Binh, Cuc Phuong National Park, N20° 17' 34.32" E105° 40' 3.12", 270m, leg. R. Gerstmeier, 22.v.2015, 2 males, 1 female (JWGC), Ninh Binh, Cuc Phuong National Park, leg. A. Weigel, 25.iv.2012, 1 female (JGGC), Vinh Phuc, Tam Dao, 1000m, leg. S. Belokobylskij, 12.xi.1990, 1 female (ZISP); Vinh Phuc, Tam Dao, 1600 m, leg. V. Sinjaev, A. Simonov, 17.vii.1993, 1 female (PURC), Vinh Phuc, Tam Dao, leg. V. Sinjaev, iv.1995, 2 males, 3 females (MPU, PURC); NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 850m, N16° 6' 25.2" E107° 26' 16.8", leg. E. Bartolozzi, S. Bambi, A. Bandinelli, E. Orbach, V. Sbordoni, 20-25.v.2017, 1 female (MZUF); CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, Kon Ka Kinh National Park, N14° 12' 57" E108° 19' 19", 1200m, leg. D. Fedorenko, 9-22.v.2016, 1 male (SIEE), Kon Tum, Kon Plong district, near Ngoc Boc I Mountain, N14° 44' E108° 18', 1100-1200m, leg. D. Fedorenko, 8-23.iv.2014, 1 female (SIEE).

**Distribution.** Vietnam (Bac Kan, Gia Lai, Hoa Binh, Kon Tum, Lao Cai, Ninh Binh, Phu Tho, Thai Nguyen, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Yunnan), Laos (Borikhamxay, Houaphanh, Luangnamtha, Oudomxay, Phongsaly), India (Assam).

**Remarks.** New provincial records for Bac Kan, Gia Lai, Hoa Binh, Kon Tum, Ninh Binh, Phu Tho, Thai Nguyen, Thua Thien-Hue, Tuyen Quang, and Vinh Phuc.

### 67. *Neocollyris (Stenocollyris) signata* (Horn, 1902) (Fig. 67, 264)

*Collyris signata*: Horn 1902: 69, 70; 1913: 363; 1924: 7.

*Neocollyris (Stenocollyris) signata*: Naviaux 1995a: 228, 229.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65; 1913: 363; 1924: 7).

**New records.** NORTHEAST: Ha Giang, N from Ha Giang, 1200m, leg. O. Kabakov, 6.vii.1963, 1 female (ZISP); Thai Nguyen, 50 km NO from Thai Nguyen, 300m, leg. O. Kabakov, 15-26.vi.1962, 2 males, 1 female (ZISP), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 9-14.vi.1996, 2 females (ANLC); NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 male (EOIC); CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, N14° 12' 57" E108° 19' 19", Kon Ka Kinh National Park, 1200m, leg. D. Fedorenko, 9-22.v.2016, 1 male (SIEE), Kon Tum, Chu Mom Ray National Park, N14° 30' E107° 43', 730m, 28.iii-4.iv.2015, leg. D. Fedorenko, 1 male (SIEE), Kon Tum, Kon Plong district, Dak Khe River, N14° 43' E107° 19', 1030m, 8-23.iv.2015, leg. D. Fedorenko, 1 female (MPU).

**Distribution.** Vietnam (Gia Lai, Ha Giang, Kon Tum, Lang Son, Thai Nguyen, Thua Thien-Hue, Tuyen Quang), China (Guangdong), Laos (Borikhamxay, Luangnamtha).

**Remarks.** New provincial records for Gia Lai, Ha Giang, Kon Tum, Thai Nguyen, Thua Thien-Hue and Tuyen Quang.

### A2.2.9. Subgenus *Pachycollyris* Naviaux, 1995

#### Key to the species of subgenus *Pachycollyris* Naviaux, 1995

- |       |   |  |
|-------|---|--|
| 1.    | Metatibiae and metatarsi dark, black or reddish-brown .....       | 2  |
| —     | Metatibiae and metatarsi partly or as a whole pale .....          | 5  |
| 2(1). | Apical half of elytra with deep pits .....                        | 3  |
| —     | Apical half of elytra smooth .....                                | 4  |
| 3(2). | Elytra parallel .....   | 69. <i>N. (P.) bipartita unicolor</i> (Horn, 1935) |
| —     | Apical third of elytra amplified .....                            | 70. <i>N. (P.) inflata</i> Naviaux, 1999           |
| 4(2). | Front of pronotum with a distinct collum .....                    | 83. <i>N. (P.) pseudocontracta</i> (Horn, 1937)    |
| —     | Front of pronotum slightly constricted .....                      | 84. <i>N. (P.) nitida</i> Naviaux, 1995            |
| 5(1). | Apical half of elytra reddish .....                               | 6  |
| —     | Apical half of elytra dark, with or without metallic luster ..... | 13   |

6(5).	Pronotum partly brownish .....	72. <i>N. (P.) foveifrons</i> (Horn, 1901)
—	Pronotum completely black .....	7
7(6).	Basal third of elytra brownish .....	79. <i>N. (P.) sawadai</i> Naviaux, 1991
—	Basal third of elytra dark .....	8
8(7).	Metatibiae completely pale .....	9
—	Metatibiae not completely pale .....	10
9(8).	General habitus robust; interocular excavation broad .....	
	.....	68. <i>N. (P.) bipartita bipartita</i> (Fleutiaux, 1897)
—	Habitus slender; interocular excavation narrow .....	73. <i>N. (P.) vitalisi</i> (Horn, 1924)
10(8).	Middle part of elytra covered with deep pits .....	71. <i>N. (P.) bicolor</i> (Horn, 1902)
—	Middle part of elytra covered with several ribs .....	11
11(10).	Central tooth of the three middle teeth of labrum larger and more prominent .....	
	.....	80. <i>N. (P.) murzini</i> Naviaux, 1992
—	Three middle teeth of labrum of same size and expansion .....	12
12(11).	Last joint of labial palpi of male sharply dilated, dolabriform .....	
	.....	75. <i>N. (P.) panfilovi</i> Naviaux and Matalin, 2002
—	Last joint of labial palpi of male moderately dilated, drop-shaped .....	
	.....	74. <i>N. (P.) tricolor</i> Naviaux, 1991
13(5).	Elytra without metallic luster .....	14
—	Elytra with metallic luster .....	15
14(13).	Apical antennal segments brownish; punctures on elytral frons and apex dense .....	
	.....	76. <i>N. (P.) fasciata</i> (Chaudoir, 1864)
—	Apical antennal segments blackish; punctures on elytral frons and apex shallow .....	
	.....	78. <i>N. (P.) vietnamensis</i> Mandl, 1970
15(13).	Metallic luster restricted to apical half of elytra .....	77. <i>N. (P.) biimpressa</i> (Horn, 1937)
—	Metallic luster covers the whole elytra .....	16
16(15).	Pronotum with deep transversal furrows .....	
	.....	82. <i>N. (P.) mouhotii nagaii</i> Naviaux and Sawada, 1992
—	Pronotum nearly smooth .....	81. <i>N. (P.) strangulata</i> Naviaux, 1991

**68. *Neocollyris (Pachycollyris) bipartita bipartita*** (Fleutiaux, 1897) (Fig. 68, 265)

*Collyris bipartita*: Horn 1929: 18.

*Neocollyris (Pachycollyris) bipartita bipartita*: Naviaux 1995a: 237, 238.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 18).

**Distribution.** Vietnam (Lao Cai), China (Yunnan), Myanmar, India.

**69. *Neocollyris (Pachycollyris) bipartita unicolor*** (Horn, 1935) (Fig. 69, 266)

*Collyris insignis unicolor*: Horn 1935: 52.

*Neocollyris (Pachycollyris) bipartita unicolor*: Naviaux 1995a: 238, 240.

**Published data.** Vietnam (Naviaux 1995a: 240).

**New records.** NORTHEAST: Lao Cai, Hoang Lien National Park, Tram Non, N22° 21' 11.82" E103° 46' 30.78", 1800-2050m, leg. R. Gerstmeier, 16.v.2015, 1 male, 1 female (JWGC); NORTHWEST: Hoa Binh, Da Bac, Tuly shrubs, leg. S. Belokobylskij, 17.x.1990, 1 female (ZISP); RED RIVER DELTA: Vinh Phuc, Tam Dao, 1600 m, leg. V. Sinjaev, 17.v.1993, 2 females (MPU); NORTH CENTRAL COAST: Nghe An,



mountains W of Muong Sen, 1000m, leg. O. Kabakov, 6.x.1962, 1 female (ZISP), Thanh Hoa, SW of Bai Thuong, 300m, leg. O. Kabakov, 7.vii.1962, 1 female (ZISP); CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, N14° 13' 17" E108° 19' 37", Kon Ka Kinh National Park, 1270m, leg. D. Fedorenko, 9-22.v.2016, 1 female (MPU), Kon Tum, Chu Mom Ray National Park, Ngoc To Lum Mountain, N14° 30' E107° 42' 30", 1100-1350m, 28.iii-4.iv.2015, leg. D. Fedorenko, 1 male (SIEE), Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC).

**Distribution.** Vietnam (Gia Lai, Hoa Binh, Kon Tum, Lam Dong, Lao Cai, Nghe An, Thanh Hoa, Vinh Phuc), Laos (Champasack, Phongsaly).

**Remarks.** New provincial records for Gia Lai, Hoa Binh, Kon Tum, Lam Dong, Lao Cai, Nghe An, Thanh Hoa and Vinh Phuc.

**70. *Neocollyris (Pachycollyris) inflata*** Naviaux, 1999 (Fig. 70, 267)

*Neocollyris (Pachycollyris) inflata*: Naviaux 1999: 219; 2004: 122-124.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (14 km SW Bao Loc) (Naviaux 1999: 219; 2004: 122).

**Distribution.** Vietnam (Lam Dong).

**71. *Neocollyris (Pachycollyris) bicolor*** (Horn, 1902) (Fig. 71, 268)

*Collyris bicolor*: Horn 1902: 70, 71; 1913: 363; 1924: 9.

*Neocollyris (Pachycollyris) bicolor*: Naviaux 1995a: 240, 242.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1924: 9), Lang Son (Mont Mau Son) (Horn 1902: 65; 1913: 363; 1924: 9; Naviaux 1995a: 242), Tuyen Quang (Horn 1913: 363; 1924: 9; Naviaux 1995a: 242).

**New records.** NORTHEAST: Ha Giang, mountains W of Bac Quang, 500m, leg. O. Kabakov, 15.vii.1963, 1 male (ZISP); NORTHWEST: Lai Chau, Hoang Lien Son, leg. P. Pacholatko, 11-15.v.1990, 1 male (JWGC).

**Distribution.** Vietnam (Ha Giang, Lai Chau, Lao Cai, Lang Son, Tuyen Quang), China (Guangxi, Yunnan), Laos (Houaphanh).

**Remarks.** New provincial records for Ha Giang and Lai Chau.

**72. *Neocollyris (Pachycollyris) foveifrons*** (Horn, 1901) (Fig. 72, 269)

*Collyris foveifrons*: Horn 1902: 65; 1924: 10.

*Neocollyris (Pachycollyris) foveifrons*: Naviaux 1995a: 250, 252.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 65; 1924: 10).

**Distribution.** Vietnam (Lang Son), India (Assam).

**Remarks.** Naviaux in his monograph on *Collyris* 1995a: 166-168) did not mention the occurrence of this species in Vietnam, although one male and one female in SDEI are labeled „Tonkin, Montes Mauson, April-Mai, 2-3000", H. Fruhstorfer" and the female bearing the label „*Neocollyris foveifrons* W. H., R. Naviaux det 1989".

**73. *Neocollyris (Pachycollyris) vitalisi*** (Horn, 1924) (Fig. 73, 270)

*Collyris Vitalisi*: Horn 1924: 10.

*Neocollyris (Pachycollyris) feai vitalisi*: Naviaux 1995a: 256, 257.

*Neocollyris (Pachycollyris) vitalisi*: Cassola 2005: 15.

**Published data.** SOUTHEAST: Dong Nai (Gia Ray) (Horn 1924: 10; Naviaux 1995a: 256).

**New records.** NORTHEAST: Cao Bang, vic. Tinh Tuc, Nui Pla Oac Top, N22° 36' 50" E105° 52' 21", leg. A. Weigel 13.v.2014, 1 specimen (JGGC). NORTH CENTRAL COAST: Nghe An, mountains W of Muong Sen, 1000m, leg. O. Kabakov, 6.x.1962, 1 female (ZISP).

**Distribution.** Vietnam (Cao Bang, Dong Nai, Nghe An), China (?Xizang), Laos (Borikhamxay, Champasack, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Xiengkhuang), Thailand (Nahkon Ratchasima), Myanmar (Shan).

**Remarks.** New provincial records for Cao Bang and Nghe An.

**74. *Neocollyris (Pachycollyris) tricolor*** Naviaux, 1991 (Fig. 74, 271)*Neocollyris tricolor*: Naviaux 1991: 227.*Neocollyris (Pachycollyris) tricolor*: Naviaux 1995a: 257, 258.**New records.** NORTHEAST: Lao Cai, Sa Pa distr., Fan-Si-Pan Mountain, N22° 20' 58" E103° 46' 15", 1900-2500m, leg. N. L. Orlov, 20.iv-9.v.1999, 1 male, 1 female (ZISP, MPU), Lao Cai, Hoang Lien Son Mountain Ridge, Fan-Si-Pan Mountain, near Tram Tong, 1950-2100m, leg. D. Fedorenko, 15-30.vii.2007, 1 female (SIEE).**Distribution.** Vietnam (Lao Cai), China (Yunnan), Laos (Louangnamtha, Oudomxay, Phongsaly), Myanmar (Kachin), Thailand (Chiang Mai, Mae Hong Son).**Remarks.** New state record for Vietnam and new provincial record for Lao Cai.**75. *Neocollyris (Pachycollyris) panfilovi*** Naviaux and Matalin, 2002 (Fig. 75, 272)*Neocollyris (Pachycollyris) panfilovi*: Naviaux and Matalin 2002: 273, 274.**New records.** NORTHEAST: Lao Cai, upstream of Nam Ma River, Duong Pao, leg. O. Kabakov, 30.v.1963, 2 males, 1 female (ZISP, MPU); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, N21° 4' 4" E105° 21' 30", leg. J. Constant and J. Bressel, 25-29.vi.2015, 1 male (IRSNB); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 23-28.v.2014, 1 male, 3 females (ABIC).**Distribution.** Vietnam (Ha Noi City, Lao Cai, Thua Thien-Hue), China (Sichuan, ?Xizang, Yunnan), Laos (Houaphanh, Luangprabang, Phongsaly, Xiengkhuang), Myanmar (Shan).**Remarks.** New state record for Vietnam and new provincial records for Ha Noi City, Lao Cai and Thua Thien-Hue.**76. *Neocollyris (Pachycollyris) fasciata*** (Chaudoir, 1864) (Fig. 76, 273)*Collyris fasciata*: Horn 1914: 140; 1924: 7.*Neocollyris (Pachycollyris) fasciata*: Naviaux 1995a: 258, 259.**Published data.** NORTHEAST: Lao Cai (Horn 1914: 140), Lao Cai (Sa Pa) (Horn 1924: 7).**New records.** NORTHWEST: Tonkin, reg. de Hoa Binh, A. de Cooman, 1928, 1 male, 1 female (SDEI); NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 850m, N16° 6' 25.2" E107° 26' 16.8", leg. E. Bartolozzi, S. Bambi, A. Bandinelli, E. Orbach, V. Sbordoni, 20-25.v.2017, 1 male (MZUF); CENTRAL HIGHLANDS: Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3.v.2016, 1 male (ABIC).**Distribution.** Vietnam (Hoa Binh, Kon Tum, Lao Cai, Thua Thien-Hue), Cambodia, Thailand (Chanthaburi).**Remarks.** New provincial records for Hoa binh, Kon Tum and Thua Thien-Hue.**77. *Neocollyris (Pachycollyris) biimpresa*** (Horn, 1937) (Fig. 77, 274)*Collyris biimpresa*: Horn 1937: 55.*Neocollyris (Pachycollyris) biimpresa*: Naviaux 1995a: 259, 260.**Published data.** CENTRAL HIGHLANDS: Lam Dong (Haut Donai) (Horn: 1937: 56; Naviaux 1995a: 259).**New records.** CENTRAL HIGHLANDS: Lam Dong, 35 km NW of Bao Loc, Loc Bao env., N11° 50' 12" E107° 38' 25", 650m, leg. D. Fedorenko, 17-22.iv.2012, 1 female (MPU).**Distribution.** Vietnam (Lam Dong), Laos (Attapeu).**78. *Neocollyris (Pachycollyris) vietnamensis*** Mandl, 1970 (Fig. 78, 275)*Neocollyris vietnamensis*: Mandl 1970: 57, 58.*Neocollyris (Pachycollyris) rivalieri*: Naviaux 1995a: 261, 262.*Neocollyris (Pachycollyris) vietnamensis*: Naviaux 1995c: 444; 2004: 125.**Published data.** CENTRAL HIGHLANDS: Lam Dong (Bobla) (Naviaux 2004: 125), Lam Dong (Haut Donai, Blao) (Naviaux 2004: 125).**New records.** CENTRAL HIGHLANDS: Lam Dong, 35 km NNW of Bao Loc, near Loc Bao, N11° 50' 12" E107° 38' 25", 650m, leg. D. Fedorenko, 17-22.iv.2012, 1 female (SIEE); SOUTHEAST: Binh Phuoc,

Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, leg. D. Fedorenko, 16-19.iv.2009, 2 males, 1 female (MPU, SIEE).

**Distribution.** Vietnam (Binh Phuoc, Lam Dong).

**Remarks.** New provincial record for Binh Phuoc.

**79. *Neocollyris (Pachycollyris) sawadai*** Naviaux, 1991 (Fig. 79, 276)

*Neocollyris sawadai*: Naviaux 1991a: 222.

*Neocollyris (Pachycollyris) sawadai*: Naviaux 1995a: 262, 263.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux 1991a: 222; Naviaux 1995a: 262).

**New records.** NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Weigel, 1 male, (JGGC); RED RIVER DELTA: Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 28.viii.1963, 1 female (ZISP); Vinh Phuc, Tam Dao, leg. A. Monastyrsky, 18.vi.1994, 1 male (MPU).

**Distribution.** Vietnam (Cao Bang, Vinh Phuc).

**Remarks.** New provincial record for Cao Bang.

**80. *Neocollyris (Pachycollyris) murzini*** Naviaux, 1992 (Fig. 80, 277)

*Neocollyris murzini*: Naviaux 1992b: 452.

*Neocollyris (Pachycollyris) murzini*: Naviaux 1995a: 263.

**Published data.** ? Bako forest, 30 km E Mok Tian (Naviaux 1992b: 452; Naviaux 1995a: 263).

**New records.** NORTHEAST: Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 male (IRSNB).

**Distribution.** Vietnam (Tuyen Quang).

**Remarks.** New provincial record for Tuyen Quang.

**81. *Neocollyris (Pachycollyris) strangulata*** Naviaux, 1991 (Fig. 81, 278)

*Neocollyris strangulata*: Naviaux 1991b: 276, 277.

*Neocollyris (Pachycollyris) strangulata*: Naviaux 1995a: 263, 264.

**Published data.** NORTHWEST: Hoa Binh (Naviaux 1991b: 276); NORTHEAST: Ha Giang (Naviaux 1991b: 276; Naviaux 1995a: 263); RED RIVER DELTA: Ninh Binh (Cuc Phuong) (Naviaux 1991b: 277), Vinh Phuc (Tam Dao) (Naviaux 1991b: 276); NORTH CENTRAL COAST: Quang Tri (Naviaux 1991b: 276).

**New records.** NORTHEAST: Lao Cai, Van Ban National Park, 1000m, leg. E. Orbach, 23/26.v.2011, 1 male (EOIC), Lao Cai, Fan-Si-Pan Mountain, 2300m, leg V. Sinjaev, A. Simonov, 20.iv.1994, 1 male, 1 female (MPU, PURC), Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 1 male (EOIC); Thai Nguyen, 50 km NE of Thai Nguyen, 300m, leg. O. Kabakov, 15.vi.1963, 1 male (MPU), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 29.v-9.vi.1996, 1 male (ANLC); NORTHWEST: Hoa Binh, Yen Thuy distr., Lac Thinh, Cuc Phouc National Park, N20° 23' E105° 34', leg. S. Belokobylskij, 5-6.v.2002, 1 male (MPU), Hoa Binh, Yen Thuy distr., Da Phuc, N20° 18' E105° 35', 1000m, leg. S. Belokobylskij, 3-4.v.2002, 1 male (ZISP); RED RIVER DELTA: Hanoi, Ba Vi National Park, N21° 4' 4" E105° 21' 30", leg. J. Constant and J. Bressel, 25-29.vi.2015, 1 male, 1 female (IRSNB), Vinh Phuc, Tam Dao, Mir. Dvorak leg., 20-28.vi.1990, 1 female (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 1 specimen (ASGC), Vinh Phuc, Tam Dao, leg. V. Sinjaev, iv.1995, 2 males (MPU, PURC), Ninh Binh, Cuc Phuong National Park, N20° 21' 1" E105° 35' 35", hand collected, leg. M. Hauser and N. von Ellenrieder, 13-17.vi.2014, 1 male, 1 female (JWGC).

**Distribution.** Vietnam (Ha Giang, Ha Noi City, Hoa Binh, Lao Cai, Ninh Binh, Phu To, Quang Tri, Thai Nguyen, Tuyen Quang, Vinh Phuc), Laos (Borikhamxay, Luangnamtha).

**Remarks.** New provincial records for Ha Noi City, Lao Cai, Phu Tho, Thai Nguyen and Tuyen Quang.

**82. *Neocollyris (Pachycollyris) mouhotii nagaii*** Naviaux and Sawada, 1992 (Fig. 82, 279)

*Collyris Mouhoti*: Horn 1929: 18.

*Neocollyris mouhoti nagaii*: Naviaux and Sawada 1992: 46-48.

*Neocollyris (Pachycollyris) mouhotii nagaii*: Naviaux 1995a: 267.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 18); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Naviaux and Sawada 1992: 46; Naviaux 1995a: 267).

**New records.** NORTHEAST: Cao Bang, Ba Be National Park, SW entry, N22° 24' N E105° 37' E, leg. A. Weigel, 18.v.2014, 1 female (NMEG), 1 female (JGGC), Tuyen Quang, Cham Chu N. R., N22° 12' E105° 06', day collecting, leg. J. Constant and J. Bresseel, 8-12.vii.2015, 1 female (IRSNB); RED RIVER DELTA: Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", night collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 2 males (IRSNB), Vinh Phuc, 55 km NNW of Ha Noi, Tam Dao, 800-900m, leg. native collector, iv-viii.1998, 1 male (ANLC), Vinh Phuc, Vietnam, Tam Dao National Park, day collecting, leg. J. Constant and J. Bresseel, 25-30.vii.2011, 1 female (JWGC), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 female (CSCA), l. c., 1 female (JWGC); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, N16° 11' 42" E107° 51' 46.8", *Rhododendron* Tr., 1150m, Bezark, Bicha, Mudge and Schiff, 18-23.vi.2015, 1 female (JWGC); SOUTHEAST: Ninh Thuan, Nui Chua National Park, N11° 42' E109° 09', light trap, leg. J. Constant and J. Bresseel, 3-9.vii.2014, 1 female (IRSNB).

**Distribution.** Vietnam (Cao Bang, Ha Noi City, Lao Cai, Ninh Thuan, Thua Thien-Hue, Tuyen Quang, Vinh Phuc).

**Remarks.** New provincial records for Cao Bang, Ha Noi City, Ninh Thuan, Thua Thien-Hue and Tuyen Quang.

**83. *Neocollyris (Pachycollyris) pseudocontracta*** (Horn, 1937) (Fig. 83, 280)

*Collyris aptera pseudo-contracta*: Horn 1937: 55, 56.

*Neocollyris (Pachycollyris) pseudocontracta*: Naviaux 1995a: 270, 271.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Haut Donai) (Horn: 1937: 56; Naviaux 1995a: 270).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC), Lam Dong, 35 km NW of Bao Loc, Loc Bao env., 650m, N11° 50' 12" E107° 38' 25", leg. D. Fedorenko, 17-22.iv.2012, 1 male (SIEE), Lam Dong, Loc Tan, Bao Lam, iv.2016, local collectors, 1 male, (ABIC).

**Distribution.** Vietnam (Lam Dong).

**84. *Neocollyris (Pachycollyris) nitida*** Naviaux, 1995 (Fig. 84)

*Neocollyris (Pachycollyris) nitida*: Naviaux 1995a: 271, 272.

**Published data.** Tonkin (Naviaux 1995a: 271).

**Distribution.** Vietnam.

**A2.3. Genus *Collyris*** Fabricius, 1801

**85. *Collyris mnischechii*** Chaudoir, 1864 (Fig. 85)

*Collyris mnischechi*: Naviaux 1995a: 308, 309.

**Published data.** Vietnam (Naviaux 1995a: 310).

**Distribution.** Vietnam, ?China (Yunnan), Laos (Vientiane), Thailand (Chiang Mai, Chiang Rai), ?Myanmar.

**B1. Subtribe Theratina** Horn, 1910, **genus *Therates*** Latreille, 1817 (Fig. 182, 187)

**Key to the species groups of subtribe Theratina** Horn, 1910 (represented in Vietnam by genus *Therates* Latreille, 1817, only)

1. Elytra containing apical hump only ..... **B1.1. cribratus** group
- Elytra with more than one hump ..... **2**



2. Elytra with basal, central and apical hump ..... **B1.5. batesii** group  
 — Elytra with basal and apical hump only ..... **3**
- 3(2). Elytra with bright central band, oriented outward at its anterior end .. **B1.3. obliquus** group  
 — Elytra with bright central dot or transverse rectangular central band, or without central dot and band ..... **4**
- 4(3). Palpi bright ..... **B1.2. chennelli** group  
 — Distal segment of labial palpi and maxillary palpi as a whole dark ..... **B1.4. tuberosus** group

### B1.1. *cribratus* group

#### Key to the species of *cribratus* group

1. Elytra with central dot on disc ..... **87. *T. cribratus*** Fleutiaux, 1893  
 — Elytra without central dot on disc ..... **86. *T. rugulosus*** Horn, 1900

**86. *Therates rugulosus*** Horn, 1900 (Fig. 86, 281)

**New Records.** NORTHEAST: Bac Kan, Ba Bè National Park (entry), N22° 25' 07" E105° 38' 09", 180-220m, leg. A. Weigel, 18.v.2014, 1 female (NMEG), 1 female (JGGC).

**Distribution.** Vietnam (Bac Kan), Thailand (Chiang Mai, Phrae), Laos (Borikhamxay, Khammuane), China (Yunnan), Indonesia (Sumatra), Malaysia (Sarawak, Sabah).

**Remarks.** New state record for Vietnam and new provincial record for Bac Kan.

**87. *Therates cribratus*** Fleutiaux, 1893 (Fig. 87, 282)

*Therates cribratus*: Wiesner 1988: 13; Sawada and Wiesner 2000: 97, 2002: 79; Wiesner and Geiser 2016: 84; Matalin and Wiesner, 2016: 8, 9.

**Published data.** CENTRAL HIGHLANDS: Gia Lai (40 km NEE of Pleiku) (Matalin and Wiesner 2016: 8).

**Distribution.** Vietnam (Gia Lai), Laos (Khammuane), Myanmar (Kachin), Thailand (Nakhon Sawan).

### B1.2. *chennelli* group

#### Key to the species of *chennelli* group

1. Ventral aspect completely pale; metaepisternum yellow to reddish brown; male with distal two antennomeres obviously elongated ..... **104. *T. clavicornis*** Horn, 1902  
 — Ventral aspect partly to almost dark; metaepisternum black ..... **2**
- 2(1). Elytral maculae variably connected throughout ..... **3**  
 — Elytral maculae isolated, or at most humeral lunule and basal dot connected at base and/or humeral lunule connected with central dot ..... **5**
- 3(2). Dark wedge shaped recession between humeral lunule and central dot absent or small ..... **4**  
 — Dark wedge shaped recession between humeral lunule and central dot obvious and extends from marginal suture to center ..... **92. *T. concinnus*** Gestro, 1888
- 4(3). Ventrites black or with narrow yellow lateral margin ..... **96. *T. 4confluens*** Wiesner, 1988  
 — Ventrites with broad and distinctive lateral yellow margins; apical dot extended forward medially ..... **103. *T. haucki*** Moravec and Wiesner, 2001

- 5(2). Elytral humeral lunule short, not extended onto disk ..... 6  
 — Humeral lunule long, extended onto disk and diverging away from marginal suture ..... 7
- 6(5). Elytral central dot subsquare or trapezoidal ..... 16  
 — Central dot not subsquare or trapezoidal; body size usually less than 8 mm .....  
 ..... 98. *T. rugifer* Horn, 1902
- 7(5). Central dot subsquare or a trapezoidal band; humeral lunule long, tongue like and enlarged  
 towards central dot ..... 93. *T. bannapecolus* Sawada and Wiesner, 1999  
 — Central dot more or less roundish, not forming a band ..... 8
- 8(7). Central dot acutely angled outwards toward the front ..... 9  
 — Central dot not acutely angled outwards toward the front ..... 14
- 9(8). Elytral apex with a yellow dot ..... 11  
 — Elytral apex with no yellow dot ..... 10
- 10(9). Labrum uniformly pale ..... 94. *T. gestroi* Horn, 1900  
 — Labrum dark at outer margin. Ventriles black to margins ..... 97. *T. schueleii* Wiesner, 2013
- 11(9). Elytral humeral lunule short ..... 12  
 — Humeral lunule long, nearly reaching the central dot ..... 88. *T. baolocensis* Wiesner, 1996
- 12(11). Labrum uniformly yellowish ..... 90. *T. probsti* Wiesner, 1988  
 — Labrum brownish laterally ..... 13
- 13(12). Basal elytral dot short, body size less than 8 mm ..... 99. *T. aligii* Wiesner, 2016  
 — Basal elytral dot long, body size usually more than 8 mm ..... 100. *T. paulae* Wiesner, 2016
- 14(8). Humeral lunule long, connected with the central dot or nearly reaching it .....  
 ..... 89. *T. topali* Mandl, 1972  
 — Humeral lunule shorter ..... 15
- 15(14). Basal elytral dot longish and located near middle suture ..... 95. *T. pearsoni* Wiesner, 2013  
 — Basal elytral dot subsquare roundish and located besides the scutellum .....  
 ..... 91. *T. vietnamensis* Wiesner, 1988
- 16(6). Apical part of labrum broad and stout; apical knob of aedeagus straight .....  
 ..... 101. *T. tonkinensis* Horn, 1902  
 — Apical part of labrum slender and long; apical knob of aedeagus arcuated .....  
 ..... 102. *T. kubani* Wiesner, 1988

**88. *Therates baolocensis*** Wiesner, 1996 (Fig. 88, 283)

*Therates probsti baolocensis*: Wiesner 1996: 506-508.

*Therates baolocensis*: Wiesner 2013a: 11, 12; Matalin and Wiesner, 2016: 11.

**Published data.** CENTRAL HIGHLANDS: Dak Lak (Chu Yang Sin) (Matalin and Wiesner 2016: 11), Lam Dong (Bao Loc) (Wiesner 1996: 506; Wiesner 2013a: 11, 12); SOUTHEAST. Binh Phuoc (Bu Gia Map) (Matalin and Wiesner 2016: 11).

**Distribution.** Vietnam (Binh Phuoc, Dak Lak, Lam Dong).

**89. *Therates topali*** Mandl, 1972 (Fig. 89, 284)

*Therates topali*: Wiesner 1988: 19, 20; 2013a: 14, 15; Matalin and Wiesner 2016: 11.

**Published data.** NORTHWEST: Hoa Binh (Wiesner 1988: 20), Hoa Binh (5 km W Tan Son) (Wiesner 2013a: 14), Son La (Wiesner 2013a: 15), Vinh Phuc (Tam Dao) (Wiesner 2013a: 15); NORTHEAST: Cao

Bang (Ba Be National Park) (Wiesner 2013a: 15), Phu Tho (Xuan Son) (Matalin and Wiesner, 2016: 11), Tuyen Quang (Na Hang) (Matalin and Wiesner, 2016: 11); RED RIVER DELTA: Ninh Binh (Cuc Phuong) (Wiesner 1988: 20; 2013: 14); NORTH CENTRAL COAST: Quang Binh, (1 km N Cha Lo) (Wiesner 2013a: 15).

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 female (MZUF); NORTH CENTRAL COAST: Quang Binh, Minh Hoa distr., Yen Hop, leg. A. Deviatkin, 23.iv.1999, 1 male (MPU), Quang Binh, Ke Bang National Park, 17-30.iii.1999, leg. N. Belyaeva, 1 female (MPU).

**Distribution.** Vietnam (Cao Bang, Hoa Binh, Ninh Binh, Phu Tho, Quang Binh, Son La, Tuyen Quang, Vinh Phuc).

**90. *Therates probsti*** Wiesner, 1988 (Fig. 90, 285)

*Therates probsti*: Wiesner 1988: 20; 2013a: 16, 17; Cassola and Probst 1996: 15; Matalin and Wiesner 2016: 9-11.

**Published data.** NORTHWEST: Hoa Binh (Pa Co Xa Linh, Hang Kia) (Matalin and Wiesner, 2016: 9-11), Son La (Moctiau) (Wiesner 2013a: 17); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Wiesner 1988: 20; 2013a: 17); NORTHEAST: Bac Kan (Kuk Phuong) (Wiesner 2013a: 17), Lao Cai (Sa Pa) (Wiesner 1988: 20; 2013: 16; Cassola and Probst 1996: 15), Phu Tho (Xuan Son) (Matalin and Wiesner 2016: 9-11).

**New records.** NORTHEAST: Lao Cai, near Cat Cat vill., footpath on Fan-Si-Pan Mountain, N22° 20' 31.668" E103° 48' 34.992", leg. A. Prosvirov, 20-25.iv.2013, 3 males (MPU); RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 4 females (EOIC), Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", day collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 1 male (IRSNB), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 3 specimens (ASGC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 1 female (MZUF).

**Distribution.** Vietnam (Bac Kan, Ha Noi City, Hoa Binh, Lao Cai, Son La, Phu Tho, Vinh Phuc), Laos (Attapeu, Houaphanh, Luangnamtha, Oudomxay, Phongsaly).

**Remarks.** New provincial record for Ha Noi City.

**91. *Therates vietnamensis*** Wiesner, 1988 (Fig. 91, 286)

*Therates topali vietnamensis*: Wiesner 1988: 19.

*Therates vietnamensis*: Matalin 2001: 387; Wiesner 2013a: 17, 18; Matalin and Wiesner 2016: 11, 12.

**Published data.** NORTHWEST: Hoa Binh (Da Phuc, Pa Co) (Matalin and Wiesner 2016: 11, 12); NORTHEAST: Cao Bang (Ba Be National Park) (Wiesner 2013a: 18), Phu Tho (Xuan Son) (Matalin and Wiesner, 2016: 11, 12), Tuyen Quang (Na Hang) (Wiesner 2013a: 18), Tuyen Quang (Son Duong) (Matalin and Wiesner 2016: 11, 12); RED RIVER DELTA: Ninh Binh (Cuc Phuong) (Wiesner 1988: 19; 2013a: 18), Vinh Phuc (Tam Dao) (Wiesner 1988: 19; 2013a: 18; Matalin 2001: 387); NORTH CENTRAL COAST: Quang Binh, (1 km N Cha Lo) (Wiesner 2013a: 18).

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, 6 km SW Thanh So'n, N21° 10' 49.8" E106° 43' 25.62", 200m, leg. R. Gerstmeier, 18.v.2015, 4 males, 2 females (JWGC), Bac Giang, Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21° 9' 57.9" E106° 49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 1 male (JWGC), Bac Giang, Tay Yen Tu Nature Reserve, Thanh So'n, N21° 12' 48.72" E106° 45' 50.76", 86m, leg. A. Skale, 18-21.v.2015, 4 specimens (ASGC), Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 3 males, 1 female (EOIC); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, 800m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 21-24.vi.2012, 2 males, 3 female (MZUF), 1 male (EOIC), Ha Noi City, BaVi National Park, N21° 4' 4" E105° 21' 30", day collecting, leg. J. Constant and J. Bresseel, 25-29.vi.2015, 1 female (IRSNB), Ninh Binh, Cuc Phuong National Park, N20° 21' E105° 36', 200m, leg. S. Belokobylskij, 7-9.v.2002, 1 male (ZISP), Ninh Binh, Cuc Phuong National Park, N20° 21' 1" E105° 35' 35", hand collected, leg. M. Hauser and N.von Ellenrieder, 13-17.vi.2014, 1 male (JWGC), Cuc Phuong National Park, 270m, N20° 17' 34.32" E105° 40' 3.12", leg. A. Skale, 22-24.v.2015, 2 males, 4 females (ASGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 1 specimen (ASGC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 2 females (EOIC); NORTH CENTRAL COAST: Quang Binh, Minh Hoa distr., Phong Nha-Ke

Bang National Park, leg. S. Kruskop, 7-12.iv.1999, 2 males, 1 female (MPU).

**Distribution.** Vietnam (Bac Giang, Cao Bang, Ha Noi City, Hoa Binh, Ninh Binh, Phu Tho, Quang Binh, Tuyen Quang, Vinh Phuc).

**Remarks.** New provincial records for Bac Giang and Ha Noi City.

**92. *Therates concinnus*** Gestro, 1888 (Fig. 92, 287)

*Therates concinnus*: Wiesner 1988: 15; 2013a: 18, 19.

*Therates differens*: Cassola 2004: 23.

**Published data.** NORTHWEST: Hoa Binh (5 km W Tan Son) (Wiesner 2013a: 19); NORTHEAST: Lao Cai (Cassola 2004: 23); RED RIVER DELTA: Ninh Binh (Cuc Phuong) (Wiesner 2013a: 19).

**Distribution.** Vietnam (Lao Cai, Hoa Binh, Ninh Binh), Laos (Bokeo, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly), Thailand (Chiang Mai), Myanmar (Tanintharyi).

**93. *Therates bannapecolus*** Sawada and Wiesner, 1999 (Fig. 93, 288)

*Therates bannapecolus*: Sawada and Wiesner 1999: 304-305; Wiesner 2013a: 19, 20.

**New records.** RED RIVER DELTA: Ninh Binh, Cuc Phuong National Park, N20° 21' 1" E105° 35' 35", hand collected, leg. M. Hauser and N. von Ellenrieder, 13-17.vi.2014, 1 male (JWGC).

**Distribution.** Vietnam (Ninh Binh), Laos (Borikhamxai).

**Remarks.** New state record for Vietnam and new provincial record for Ninh Binh.

**94. *Therates gestroi*** Horn, 1900 (Fig. 94, 289)

*Therates gestroi*: Wiesner 1988: 18; 2013a: 22, 23.

**Published data.** NORTHEAST: Tuyen Quang (Na Hang) (Wiesner 2013a: 23).

**Distribution.** Vietnam (Tuyen Quang), Laos (Khammuane).

**95. *Therates pearsoni*** Wiesner, 2013 (Fig. 95, 290)

*Therates pearsoni*: Wiesner 2013a: 25, 26.

**Published data.** NORTH CENTRAL COAST: Quang Binh, (1 km N Cha Lo) (Wiesner 2013a: 25).

**Distribution.** Vietnam (Quang binh).

**96. *Therates confluens*** Wiesner, 1988 (Fig. 96, 291)

*Therates kraatzii confluens*: Wiesner 1988: 17, 18.

*Therates confluens*: Wiesner 1996: 505-506; 2013a: 27.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Bao Loc) (Wiesner 1996: 505; 2013a: 27), Lam Dong (Da Lat) (Wiesner 2013a: 27).

**New records.** CENTRAL HIGHLANDS: Lam Dong, 35 km NW of Bao Loc, Loc Bao, N11° 50' 12" E107° 38' 25", 650m, 11-17.vi.2012, leg. D. Fedorenko, 3 males, 3 females (MPU, SIEE).

**Distribution.** Vietnam (Lam Dong), Malaysia (Kedah).

**97. *Therates schueleii*** Wiesner, 2013 (Fig. 97, 292)

*Therates schueleii*: Wiesner 2013a: 32, 33; Matalin and Wiesner 2016: 11.

**Published data.** NORTH CENTRAL COAST: Nghe An (Kua Rao [= *Tuong Duong*]) (Matalin and Wiesner 2016: 11), Thua Thien-Hue (Bach Ma National Park) (Wiesner 2013a: 32).

**Distribution.** Vietnam (Nghe An, Thua Thien-Hue).

**98. *Therates rugifer*** Horn, 1902 (Fig. 98, 293)

*Therates rugifer*: Horn 1902: 74, 75; 1913: 364; 1924: 12; Wiesner 1988: 18, 19; 2013a: 33, 34; Matalin and Wiesner 2016: 12.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364, 1924: 12; Wiesner 1988: 19; 2013a: 33), Lang Son (Than Moi) (Wiesner 1988: 19; 2013a: 34); RED RIVER DELTA: Ninh Binh (Cuc Phuong) (Wiesner 2013a: 33, 34), Tuyen Quang (Na Hang) (Matalin and Wiesner 2016: 12), Vinh Phuc (Tam Dao) (Horn 1924: 12; Wiesner 2013a: 34).

**Distribution.** Vietnam (Lang Son, Ninh Binh, Tuyen Quang, Vinh Phuc).



**99. *Therates aligii*** Wiesner, 2016 (Fig. 99, 294)

**Published data.** NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park (Wiesner 2016: 133).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 male (EOIC).

**Distribution.** Vietnam (Thua Thien-Hue).

**100. *Therates paulae*** Wiesner, 2016 (Fig. 100, 295)

*Therates paulae*: Matalin and Wiesner 2016: 12.

**Published data.** NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park (Wiesner 2016: 133); CENTRAL HIGHLANDS: Dak Lak (Chu Yang Sin) (Matalin and Wiesner 2016: 12), Kon Tum (Chu Mom Ray, Ngoc Boc I Mountain) (Matalin and Wiesner 2016: 12).

**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1200m, N16° 11' 38" E107° 51' 23", E. Orbach, 30.v.2017, 1 male, 1 female (EOIC).

**Distribution.** Vietnam (Dak Lak, Kon Tum, Thua Thien-Hue).

**101. *Therates tonkinensis*** Horn, 1902 (Fig. 101, 296)

*Therates tonkinensis*: Horn 1902: 73, 74; 1913: 364; 1924:12; Wiesner 1988: 21; 2013a: 36, 37; Matalin and Wiesner 2016: 9, 10.

**Published data.** NORTHEAST: Cao Bang (Ba Be National Park) (Wiesner 2013a: 37), Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364, 1924: 12; Wiesner 1988: 21; 2013a: 36), Lao Cai (Hoang Lien Son) (Wiesner 2013a: 37), Thai Nguyen (Thai Nguyen) (Matalin and Wiesner 2016: 9, 10), Tuyen Quang (Na Hang) (Wiesner 2013a: 37; Matalin and Wiesner 2016: 9, 10); NORTHWEST: Hoa Binh (Cuc Phuong, Da Phuc) (Matalin and Wiesner 2016: 9, 10).

**New records.** NORTHWEST: Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22° 74' 12" E104° 93' 95", 970m, E. Orbach, 8-12.vi.2013, 1 female (EOIC).

**Distribution.** Vietnam (Cao Bang, Hoa Binh, Lang Son, Lao Cai, Thai Nguyen, Tuyen Quang).

**102. *Therates kubani*** Wiesner, 1988 (Fig. 102, 297)

*Therates tonkinensis kubani*: Wiesner 1988: 20, 21, 1992: 90, 2013a: 36, 37; Matalin 2001: 387.

*Therates kubani*: Matalin and Wiesner 2016: 9, 10.

**Published data.** NORTHEAST: Thai Nguyen (Thai Nguyen) (Matalin and Wiesner 2016: 9, 10); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Wiesner 1988: 21; 2013a: 37; Matalin 2001: 387).

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male (CSCA).

**Distribution.** Vietnam (Thai Nguyen, Vinh Phuc).

**103. *Therates haucki*** Moravec and Wiesner, 2001 (Fig. 103, 298)

*Therates belokobylskiyi*: Matalin and Wiesner 2006: 37, 38.

*Therates haucki*: Wiesner 2013a: 45, 46; Matalin and Wiesner 2016: 11.

**Published data.** NORTHWEST: Hoa Binh (Mai Chau, Hang Kia) (Matalin and Wiesner 2006: 37; Wiesner 2013a: 46); RED RIVER DELTA: Ha Noi City (45 km N) (Matalin and Wiesner 2016: 11).

**Distribution.** Vietnam (Ha Noi City, Hoa Binh), Laos (Houaphanh), Thailand (Nan).

**104. *Therates clavicornis*** Horn, 1902 (Fig. 104, 299)

*Therates clavicornis*: Horn 1902: 73; 1913: 364; 1924: 12; Wiesner 1988: 16; 2013a: 49, 50; Matalin and Wiesner 2016: 12.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364; 1924: 12; Wiesner 1988: 16; 2013a: 49), Tuyen Quang (Na Hang) (Matalin and Wiesner 2016: 12).

**Distribution.** Vietnam (Lang Son, Tuyen Quang).

**B1.3. obliquus group****Key to the species of obliquus group**

1. Sculpture of elytra delicate; pronotum as long as wide ..... **106. *T. dalatensis*** Matalin, Wiesner and Udovichenko, 2012
- Sculpture of elytra coarse; pronotum wider as long ..... **105. *T. kaliakini*** Matalin and Wiesner, 2006

**105. *Therates kaliakini*** Matalin and Wiesner, 2006 (Fig. 105, 300)

*Therates kaliakini*: Matalin and Wiesner 2006: 38, 39.

**Published data.** SOUTH CENTRAL COAST: Khanh Hoa (Hon Ba Mts.) (Matalin and Wiesner 2006: 38).

**Distribution.** Vietnam (Khanh Hoa).

**106. *Therates dalatensis*** Matalin, Wiesner and Udovichenko, 2012 (Fig. 106, 301)

*Therates dalatensis*: Matalin, Wiesner and Udovichenko 2012: 201–203.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (40 km SW Da Lat) (Matalin, Wiesner and Udovichenko 2012: 201).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Bidoup-Nui Ba National Park, N12° 26' E108° 30', day coll., leg. J. Constant and J. Bresseel, 21-25.vii.2014, 1 male (IRSNB).

**Distribution.** Vietnam (Lam Dong).

**B1.4. tuberosus group****Key to the species of tuberosus group**

1. Basal joint of metatarsi thickened and enlarged ..... **2**
- Basal joint of metatarsi slender ..... **109. *T. rugosoangustatus*** Horn, 1929
- 2(1). Elytra with roundish central dot ..... **107. *T. angustatus angustatus*** Horn, 1902
- Elytra without central dot ..... **108. *T. angustatus pseudotuberosus*** Wiesner, 1988

**107. *Therates angustatus angustatus*** Horn, 1902 (Fig. 107, 302)

*Therates angustatus*: Horn 1902: 72, 73; 1913: 364; 1924: 12; Wiesner 1988: 30.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364; 1924: 12; Wiesner 1988: 30).

**Distribution.** Vietnam (Lang Son).

**108. *Therates angustatus pseudotuberosus*** Wiesner, 1988 (Fig. 108, 303)

*Therates angustatus pseudotuberosus*: Wiesner 1988: 30. Matalin and Wiesner 2016: 12, 13.

**Published data.** RED RIVER DELTA: Vinh Phuc (Tam Dao) (Wiesner 1988: 30; Matalin and Wiesner 2016: 12, 13); CENTRAL HIGHLANDS: Lam Dong (Loc Bao) (Matalin and Wiesner 2016: 12, 13).

**Distribution.** Vietnam (Lam Dong, Vinh Phuc).

**109. *Therates rugosoangustatus*** Horn, 1929 (Fig. 109, 304)

*Therates rugoso-angustus*: Horn 1929: 19, 20.

*Therates rugosoangustatus*: Wiesner 1988: 31.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 19; Wiesner 1988: 31).

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, M. Kalabza and Z. Kostal, leg., 6-20.v.1990, 1 female (JWGC).

**Distribution.** Vietnam (Lao Cai, Vinh Phuc).

**Remarks.** New provincial record for Vinh Phuc.

**B1.5. batesii group****Key to the species of batesii group**

1. Elytra apically with a small yellow margin ..... **110. *T. fruhstorferi fruhstorferi*** Horn, 1902  
 — Apex of elytra without such a margin ..... **111. *T. vitalisi*** Horn, 1913

**110. *Therates fruhstorferi fruhstorferi*** Horn, 1902 (Fig. 110, 305)

*Therates Fruhstorferi*: Horn 1902: 72; 1913: 363; 1929: 19.

*Therates fruhstorferi*: Wiesner 1988: 41; Cassola and Probst 1996: 15; Matalin 2001: 387; 2014: 300, 301.

**Published data.** NORTHWEST: Hoa Binh (Yen Thuy distr., Loc Thin, Cuc Phuong National Park) (Matalin 2014: 300); NORTHEAST: Ha Giang (N Ha Giang) (Matalin 2014: 300), Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 363; Wiesner 1988: 41), Lang Son (Than Moi) (Wiesner 1988: 41), Lao Cai (Fan Si Pan Mountain) (Matalin 2014: 300), Lao Cai (Sa Pa) (Horn 1929: 19; Cassola and Probst 1996: 15), Phu Tho (90 km W of Ha Noi, Xuan Son National Park) (Matalin 2014: 300), Thai Nguyen (Tam Dao) (Matalin 2014: 300), Thai Nguyen (50 km NE Thai Nguen) (Matalin 2014: 300), Tuyen Quang (160 km NNW Ha Noi, NE env. of Na Hang) (Matalin 2014: 300); RED RIVER DELTA: Ha Noi City (45 km W of Ha Noi, Ba Vi National Park) (Matalin 2014: 300), Vinh Phuc (Tam Dao) (Wiesner 1988: 41); NORTH CENTRAL COAST: Nghe An (Vinh) (Wiesner 1988: 41), Quang Binh (NW Dong Hoi) (Matalin 2014: 300), Quang Binh (Minh Hoa distr., Yen Hop environs) (Matalin 2014: 300);

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 900-1200m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 9-12.vi.2013, 1 male, 1 female (MZUF), Hoa Binh, Mai Chau distr., Pa Co, Xa Linh, N20° 44' E104° 55', 1120m, leg. S. Belokobylskij, 22-24.iv.2002 (ZISP); NORTHEAST: Cao Bang, vic. Vin Den, Nui Pia Oac Nature Reserve, N22° 33' 53" E105° 52' 53", 900-1300m, leg. A. Skale, 6-10.v.2013, 1 specimen (ASGC), Cao Bang, vic. Tinh Tuc, Son Dong, Nui Pia Oac Nature Reserve, N22° 37' 55" E105° 52' 98", 850-1300m, leg. A. Skale, 9-15.V.2014, 1 specimen (ASGC), Phu Tho, Xuan Son National Park, 500m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 male, 6 females (MZUF), 2 females (EOIC); RED RIVER DELTA: Ninh Binh, Cuc Phuong National Park, N20° 17' 34.32" E105° 40' 3.12", 270m, leg. R. Gerstmeier, 22.v.2015, 1 male (JWGC), Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 male, 1 female (EOIC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 2 specimens (ASGC), leg. A. Weigel, 1 female (JGGC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 2 males, 1 female (MZUF), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 6 males, 1 female (CSCA); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, malaise trap, 23-28.v.2014, 3 males (ABIC).

**Distribution.** Vietnam (Cao Bang, Ha Giang, Ha Noi City, Hoa Binh, Lang Son, Lao Cai, Nghe An, Ninh Binh, Phu Tho, Quang Binh, Thai Nguen, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Guangdong, Guizhou, Guangxi, Hubei, Hunan, Yunnan).

**Remarks.** New provincial records for Cao Bang, Ninh Binh and Thua Thien-Hue.

**111. *Therates vitalisi*** Horn, 1913 (Fig. 111, 306)

*Therates Fruhstorferi Vitalisi*: Horn 1913: 363, 364; 1929: 19.

*Therates fruhstorferi vitalisi*: Wiesner 1988: 40.

*Therates vitalisi*: Matalin 2014: 300-302.

**Published data.** NORTHWEST: Hoa Binh (Mai Chau distr., Pa Co, Xa Linh) (Matalin 2014: 300); NORTHEAST: Lao Cai (Sa Pa) (Horn 1913: 364; 1929: 19; Wiesner 1988: 40; Matalin 2014: 300), Lao Cai (Hoang Lien Son Mountain Range, Hoang Lien National Park., Sa Pa vill. environs) (Matalin 2014: 300), Phu Tho (90 km W Ha Noi, Xuan Son National Park) (Matalin 2014: 300); NORTH CENTRAL COAST: Nghe An (NE Con Cuong) (Matalin 2014: 300).

**New records.** NORTHWEST: Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22° 74' 12" E104° 93' 95", 970m, E. Orbach, 8-12.vi.2013, 1 male (EOIC); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, 6 km SW Thanh So'n, N21° 10' 49.8" E106° 43' 25.62", 200m, leg. R. Gerstmeier,

18.v.2015, 1 male (JWGC), Phu Tho, Xuan Son National Park, 500m (at light), L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 male (MZUF); RED RIVER DELTA: Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21°47'52" E105°63'00", 950m, E. Orbach, 1-3.vi.2013, 1 male, 1 female (EOIC). **Distribution.** Vietnam (Bac Giang, Hoa Binh, Lao Cai, Nghe An, Phu Tho, Vinh Phuc), China (Gansu, Fujian, Xizang, Zhejiang, Yunnan), Laos (Borikhamxay, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly), Myanmar (Kachin).

**Remarks.** New provincial record for Bac Giang and Vinh Phuc.

## **B2. Subtribe Dromicina** Thomson, 1859

### **Key to the genera of subtribe Dromicina** Thomson, 1859

1. Body ventrally almost entirely glabrous except for fringe of setae on free lateral margin of hind coxae ..... **2**
- Body ventrally entirely glabrous ..... **B2.1. Prothyma** Hope, 1838
- 2(1). Elytra immaculate ..... **B2.2. Heptodonta** Hope, 1838
- Elytra with lateral maculae ..... **B2.3. Pronyssa** Bates, 1874, (represented in Vietnam by one species only) **121. P. nodicollis** Bates, 1874)

### **B2.1. Genus Prothyma** Hope, 1838

#### **Key to the subgenera of genus Prothyma** Hope, 1838

1. Flagellum of aedeagus inner sac spirally coiled ..... **B2.1.1. Paraprothyma** Rivalier, 1964
- Flagellum simply, not coiled ..... **B2.1.2. Genoprothyma** Rivalier, 1964

#### **B2.1.1. Subgenus Paraprothyma** Rivalier, 1964

#### **Key to the species of subgenus Paraprothyma** Rivalier, 1964

1. Ground color of elytral shoulders metallic reddish, remainder blackish green ..... **112. P. (P.) exornata** Schmidt-Goebel, 1846
- Ground color of elytral shoulders nit different from remainder ..... **113. P. (P.) schmidtgoebeli** Horn, 1895

#### **112. Prothyma (Paraprothyma) exornata** Schmidt-Goebel, 1846 (Fig. 112, 307)

*Prothyma (Paraprothyma) exornata*: Rivalier 1964: 145-147; Fedorenko and Matalin 2011: 126-128.

**Published data.** SOUTHEAST: Tay Ninh (Rivalier 1964: 147); Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126-128).

**New records.** SOUTHEAST: Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 15.vi.1995, 1 female (ANLC).

**Distribution.** Vietnam (Tay Ninh, Dong Nai), Laos (Borikhamxay), Cambodia, ?Thailand, ?Myanmar.

#### **113. Prothyma (Paraprothyma) schmidtgoebeli** Horn, 1895 (Fig. 113)

*Prothyma (Paraprothyma) schmidtgoebeli*: Rivalier 1964: 147, 148.

*Prothyma (Paraprothyma) schmidtgoebeli*: Matalin 2015b: 619.

**Published data.** Tonkin, Annam, Cochinchine (Rivalier 1964: 148)

**Distribution.** Vietnam, China (Guangxi), Laos (Houaphanh, Luangnamtha, Luangprabang, Vientiane, Xiengkhuang), Thailand (Chiang Mai, Kamphaeng Phet, Kanchanaburi, Loei, Mae Hong Son, Nakhin Ratchasima, Phitsanulok, Sakhon Nakhon, Sukhothai, Tak, Ubon Ratchathani), Myanmar.



**B2.1.2. Subgenus *Genoprothyma* Rivalier, 1964****Key to the species of subgenus *Genoprothyma* Rivalier, 1964**

- 1. Elytra with one medio-marginal dot and one discal dot ..... **3**
- Elytra in the centre not maculated as above ..... **2**
- 2(1). Discal dot very small; elytra, apart from the lateral margins unicolored ..... **117. *P. (G.) fallaciosa fallaciosa* Rivalier, 1964**
- Discal dot large; elytral shiny cupreous at shoulders, remainder brownish dull ..... **114. *P. (G.) heteromalla* (Macleay, 1825)**
- 3(1). Elytra lacking medio-marginal dot, with roundish discal dot only ..... **115. *P. (G.) bouvieri bouvieri* Horn, 1896**
- Elytra with medial dot, extended from margin to disc ..... **116. *P. (G.) annamica* Deuve, 2002**

**114. *Prothyma (Genoprothyma) heteromalla* (Macleay, 1825) (Fig. 114, 308)**

*Prothyma heteromalla*: Horn 1914: 140; 1929: 21.

*Prothyma (Genoprothyma) heteromalla*: Rivalier 1964: 149, 150; Matalin 2015b: 619.

**Published data.** NORTHEAST: Lao Cai (Horn 1914: 140); SOUTHEAST: Dong Nai (Bien Hoa) (Horn 1914: 140); MEKONG DELTA: Kien Giang (Phu Quok) (Horn 1929: 21).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Cat Tien National Park, N11°26' E107°26', night collecting, leg. J. Constant and J. Bresseel, 6-16.vii.2012, 1 male (IRSNB), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordoni, 11-15.vi.2015, 1 male (MZUF); SOUTHEAST: Tay Ninh, Tam Binh vill., *Dipterocarpus* forest, A. Borisenko, 4-9.xi.2001, 2 males, 1 female (MPU).

**Distribution.** Vietnam (Dong Nai, Kien Giang, Lam Dong, Lao Cai, Tay Ninh), Laos (Vientiane), Cambodia (Siem Reap), Thailand (Chanthaburi, Kanchanaburi, Nakhon Phanom, Nakhon Sawan, Saraburi), Malaysia (Malacca), Indonesia (Jawa, Sumatra).

**Remarks.** New provincial records for Lam Dong and Tay Ninh.

**115. *Prothyma (Genoprothyma) bouvieri bouvieri* Horn, 1896 (Fig. 115, 309)**

*Prothyma (Genoprothyma) bouvieri*: Rivalier 1964: 150, 151; Fedorenko and Matalin 2011: 126-128; Matalin 2015b: 619.

**Published data.** Cochinchine (Rivalier 1964: 151); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126-128).

**New records.** CENTRAL HIGHLANDS: Lam Dong S Vietnam, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC); SOUTHEAST: Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male, 1 female (MPU, ANLC), Binh Phuoc, Bu Gia Map National Park, N12°11'37" E108°12'21", 350-540m, leg. D. Fedorenko, 12-19.iv.2009, 7 males, 4 females (MPU, SIEE), Dong Nai, Ma Da, leg. S. Kruscop, 3.v.2002, 1 male (MPU).

**Distribution.** Vietnam (Binh Phuoc, Dong Nai, Lam Dong), Laos (Borikhamxay, Champasack, Khammuane, Luangprabang, Savannakhet), Cambodia (Siem Reap, Kampong Speu), Thailand (Chiang Mai, Loei, Nakhon Nayok, Nakhon Ratchasima, Nan, Sa Kaeo, Tak), Myanmar (Yangon).

**Remarks.** New provincial records for Binh Phuoc and Lam Dong.

**116. *Prothyma (Genoprothyma) annamica* Deuve, 2002 (Fig. 116)**

*Prothyma (Genoprothyma) annamica*: Deuve 2002: 50.

**Published data.** Annam (Deuve 2002: 50).

**Distribution.** Vietnam.

**117. *Prothyma (Genoprothyma) fallaciosa fallaciosa* Rivalier, 1964 (Fig. 117, 310)**

*Prothyma (Genoprothyma) fallaciosa*: Rivalier 1964: 152, 153; Wiesner 1992: 58; Matalin 2015b: 619.

**Published data.** Vietnam (Wiesner 1992: 58).

**New records.** SOUTHEAST: Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park,

leg. A. Napolov, 19-22.v.1995, 1 female (ANLC), Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 12-24.iv.2009, 2 females (MPU, SIEE).

**Distribution.** Vietnam (Binh Phuoc), Laos (Houaphanh, Khammuane, Luangnamtha, Luangprabang, Phongsaly, Vientiane, Xiengkhuang), Thailand (Chiang Mai, Chiang Rai, Kanchanaburi, Loei, Mukdahan, Tak, Yasothon).

**Remarks.** New provincial record for Binh Phuoc.

## B2.2. Genus *Heptodonta* Hope, 1838

### Key to the species of genus *Heptodonta* Hope, 1838

1. Body length 13 mm or larger ..... **118. *H. pulchella*** (Hope, 1831)
- Body length smaller than 13 mm ..... **2**
- 2(1). Body color blue violet; labrum short ..... **120. *H. eugenia*** Chaudoir, 1865
- Body color blackish or greenish, labrum long ..... **119. *H. ferrarii ferrarii*** Gestro, 1893

### **118. *Heptodonta pulchella*** (Hope, 1831) (Fig. 118, 184, 311)

*Heptodonta Hopei*: Horn 1902: 66.

*Odontochila (Heptodonta) pulchella*: Horn 1913: 364; 1924: 12.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364; 1924: 12); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Horn 1924: 12).

**New records.** NORTHWEST: Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 female (MZUF); NORTHEAST: Cao Bang, Nguyen Binh, Pia Oac Nature Reserve, 1400m, leg. E. Orbach, 14-16.vi.2012, 1 male (EOIC), Cao Bang, Mt. Pia Oac, 1600-2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 2 females (MZUF), Cao Bang, Phen env., 965m, N22° 33' 56.736" E105° 52' 13.548", L. G. Bezark coll., 18-24.v.2013, 1 male (SSUC), Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 male (MZUF), Bac Giang, Dong Ri, Kho Moc Mts., Tay Yen Tu Reserve, leg. A. Weigel, 20.v.2015, 2 specimens (NMEG); RED RIVER DELTA: Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 1 female (MZUF); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, 1400 m; N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 23-28.v.2014, 5 males, 5 females (ABIC), 2 males, 1 female (MZUF), Thua Thien-Hue, Bach Ma National Park, Do Quyen water falls, 1250m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 24.v.2014, 1 female (ABIC), Thua Thien-Hue, Bach Ma National Park, N16° 11' 42" E107° 51' 46.8", *Rhododendron* Tr., 1150m, Bezark, Bicha, Mudge and Schiff, 18-23.vi.2015, 1 male (CSCA), Thua Thien-Hue, Bach Ma National Park, 1400m, N16° 11' 56.4" E107° 51' 28.8", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 31.v.2017, 2 males, 6 females (ABIC), Thua Thien-Hue, Bach Ma National Park, 1250m, N16° 11' 34.8" E107° 51' 10.8", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 29-31.v.2017, 1 male, 2 females (ABIC), Thua Thien-Hue, Sao La Nature Reserve, Rangers HQ, A Luoi District, 650m, N16° 4' 37.2" E107° 29' 16.8", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 20.v.2017, 1 female (ABIC), Thua Thien-Hue, A Luoi district, Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 female (EOIC), Thua Thien-Hue, Bach Ma National Park, 1200m, N16° 11' 38" E107° 51' 23", E. Orbach, 30.v.2017, 1 male, 1 female (EOIC); CENTRAL HIGHLANDS: Lam Dong, Bi Doup-Nui Ba National Park, near Long Lanh, N12° 10' 44" E108° 40' 44", leg. D. Fedorenko, 1-6.v.2009, 2 males, 2 females (MPU, SIEE), Lam Dong, Bi Doup National Park, N12° 10' 55.2" E108° 40' 48", 1456m, L. G. Bezark, 6-10.vi.2015, 1 female (CSCA), Kon Tum, Dak Glei, 700 m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 1 male (ABIC).

**Distribution.** Vietnam (Bac Giang, Cao Bang, Lam Dong, Lang Son, Hoa Binh, Kon Tum, Phu Tho, Thua Thien-Hue, Vinh Phuc), China (Fujian, Macao, Xizang, Yunnan), Myanmar (Kachin), India (Meghalaya, Arunachal Pradesh, Uttar Pradesh, Sikkim), Nepal.

**Remarks.** New provincial records for Bac Giang, Cao Bang, Hoa Binh, Kon Tum, Lam Dong, Phu Tho and Thua Thien-Hue.

**119. *Heptodonta ferrarii ferrarii*** Gestro, 1893 (Fig. 119, 312)*Heptodonta Hopei* var. *Ferrarii*: Horn 1902: 66.*Odontochila (Heptodonta) pulchella* aber. *Ferrarii*: Horn 1913: 364; 1924: 13.*Heptodonta ferrarii ferrarii*: Matalin 2015b: 621.**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 364; 1924: 13); RED RIVER DELTA: Vinh Phuc (Tam Dao) (Horn 1924: 13).**New records.** NORTHWEST: Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22° 74' 83" E104° 87' 99", 1230m, E. Orbach, 11.vi.2013, 1 male, 1 female (EOIC); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, N22° 11' 10" E106° 43' 25", leg. J. Constant and J. Bresseel, 7-11.vii.2013, 1 male (JWGC), Bac Giang, Tay Yen Tu Nature Reserve, Thanh So' n, 86m, leg. A. Skale, 18-21.v.2015, 10 males, 9 females (ASGC), Bac Giang, Tay Yen Tu Nat. Res., Thanh, 6 km SW Than So' n, N21° 10' 49.8" E106° 43' 25.62", leg. F. Creutzburg, 3 specimens (NMEG), Bac Giang, Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21° 9' 57.9" E106° 49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 4 males, 4 females (JWGC), Cao Bang, Mt. Pia Oac, 1600-2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 6 males, 5 females (MZUF); RED RIVER DELTA: Vinh Phuc, Tam Dao, leg. J. Rybnicek, 27.v.-2.vi.1986, 1 male (JWGC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 1 male, 4 females (EOIC), Vinh Phuc, Tam Dao, N21° 27' 52" E105° 38' 46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 female (CSCA); NORTH CENTRAL COAST: Thua Thien-Hue, Bach Ma National Park, around Hotel Morin, 1400m, E107° 51' 00", N16° 12' 00", L. Bartolozzi, 24-27.v.2014, 1 male (EOIC), Thua Thien-Hue, Bach Ma National Park, 1250m, N16° 11' 34.8" E107° 51' 10.8", A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi leg., 29-31.v.2017, 1 female (ABIC).**Distribution.** Vietnam (Bac Giang, Cao Bang, Hoa Binh, Lang Son, Thua Thien-Hue, Vinh Phuc), China (?Xizang, Yunnan), Laos (Attapeu, Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Oudomxay, Phongsaly, Vientiane, Xiengkhuang), Thailand (Chaiyaphum, Chiang Mai, Chiang Rai, Kanchanaburi, Loei, Ranong, Surat Thani), Myanmar (Shan).**Remarks.** New provincial records for Bac Giang, Cao Bang, Hoa Binh and Thua Thien-Hue.**120. *Heptodonta eugenia*** Chaudoir, 1865 (Fig. 120, 313)*Odontochila (Heptodonta) Eugenia*: Horn 1924: 13.*Heptodonta eugenia*: Fedorenko and Matalin 2011: 128; Matalin 2015b: 620.**Published data.** Cochinchine (Horn 1924: 13); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).**New records.** CENTRAL HIGHLANDS: Kon Tum, Ngoc Hoi, Kon tum vn, vi.2015, 1 male (SSUC), Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 male (JWGC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordoni, 11-15.vi.2015, 1 female (MZUF); SOUTHEAST: Ba Ria-Vung Tau, central part of Con Son Island, N8° 42' E106° 35', 10-300m, leg. A. V. Abramov, vi.2010, 1 male, 1 female (ZISP), Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 16-19.iv.2009, 1 male, 1 female (MPU, SIEE), Dong Nai, Nam Cat Tien National Park, leg. N. Belyaeva, 7-20.iv.1993, 1 male (MPU).**Distribution.** Vietnam (Ba Ria-Vung Tau, Binh Phuoc, Kon Tum, Lam Dong, Dong Nai), China (Yunnan), Laos (Attapeu, Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Phongsaly, Saravane, Vientiane, Xayabury, Xiengkhuang), Cambodia (Siem Reap, Koh Kong), Thailand (Chanthaburi, Chiang Mai, Chiang Rai, Loei, Nahkon Ratchasima, Phitsanulok, Sa Kaeo, Tak, Ubon Ratchathani), Myanmar, Malaysia (Malacca).**Remarks.** New provincial records for Ba Ria-Vung Tau, Binh Phuoc, Kon Tum and Lam Dong.**B2.3. Genus *Pronyssa*** Bates, 1874**121. *Pronyssa nodicollis*** Bates, 1874 (Fig. 121, 314)*Heptodonta (Pronyssa) nodicollis*: Horn 1924: 13; 1929: 20.**Published data.** NORTHEAST: Ha Giang (Horn 1924: 13), Lao Cai (Sa Pa) (Horn 1929: 20).

**New records.** NORTHWEST: Lai Chau, Hoang Lien National Park, N21° 21' 00" E103° 46' 20", leg. J. Constant and J. Bresseel, 1-5.vii.2013, 1 male (JWGC); NORTHEAST: Lao Cai, Fan-Si-Pan Mountain, 2300m, leg. V. Sinjaev, A. Siminov, 20.v.1994, 1 male, 1 female (PURC), Lao Cai, Hoang Lien Son National Park, near Sa Pa, N22° 20' E103° 50', 1250m, leg. A. Napolov, 4.vi.1998, 1 male (ANLC).

**Distribution.** Vietnam (Ha Giang, Lai Chau, Lao Cai), China (Xizang, Yunnan), Myanmar (Kachin), India (Assam, Meghalaya, Sikkim), Nepal.

**Remarks.** New provincial record for Lai Chau.

**B3. Subtribe Cicindelina** Latreille, 1802

**Key to the genera of subtribe Cicindelina** Latreille, 1802

1. Flagellum of aedeagus inner sac slender, not coiled ..... **2**  
 — Flagellum evolved and coiled ..... **5**
- 2(1). Front edge of pronotum ciliated ..... **B3.10. Abroscelis** Hope, 1838  
 — Front edge of pronotum not ciliated ..... **3**
- 3(2). Labrum with four marginal setae ..... **B3.6. Naviauxella** Cassola, 1988  
 — Labrum with more than 4 marginal setae ..... **4**
- 4(3). Elytral maculation restricted to lateral margin ..... **B3.11. Callytron** Gistel, 1848  
 — Elytral maculation not restricted to lateral margin, but central dot or band present .....  
     ..... **B3.2. Cicindela** Linné, 1758
- 5(1). Flagellum coiled in a sagittal plane ..... **6**  
 — Flagellum complexly coiled on both sides of the inner sac ..... **7**
- 6(5). Labrum with four marginal setae ..... **B3.9. Myriochila** Motschulsky, 1857  
 — Labrum with more than four marginal setae ..... **B3.8. Cyllindera** Westwood, 1831
- 7(5). Elytral maculation restricted to lateral margin .....  
     ..... **B3.12. Enantiola** Rivalier, 1961, (represented in Vietnam by one species only) **177. E. hewittii** (Horn, 1908)  
 — Lateral margin without maculation ..... **8**
- 8(7). Labrum with much more than six marginal setae ..... **B3.3. Calomera** Motschulsky, 1862  
 — Labrum with six marginal setae ..... **9**
- 9(8). Lateral margins of pronotum setose ..... **B3.5. Lophyra** Motschulsky, 1859  
 — Lateral margins of pronotum glabrous ..... **10**
- 10(9). Color of area besides the middle suture of elytra different from elytral ground color .....  
     ..... **B3.4. Cosmodela** Rivalier, 1961  
 — Elytral ground color consistent all over ..... **11**
- 11(10). Labrum metallic bluish green; body shorter than 10 mm ..... **B3.7. Probstia** Cassola, 2002,  
     (represented in Vietnam by one species only) **151. P. triumphalis** (Horn, 1902))  
 — Labrum bicolored, yellowish and dark in various extension; body longer than 10 mm .....  
     ..... **B3.1. Calochroa** Hope, 1838



**B3.1. Genus *Calochroa* Hope, 1838****Key to the species of genus *Calochroa* Hope, 1838**

1. Labrum with three teeth ..... **122. *C. flavomaculata flavomaculata*** (Hope, 1831)
- Labrum with more than three teeth ..... **2**
- 2(1). Humeral lunule of elytra slender and long, at least covering the basal half of the elytra ..... **4**
- Humeral lunule short, covering no more than the basal third of elytra ..... **3**
- 3(2). Humeral lunule stout, with rectilinear shape apically ..... **124. *C. pseudosiamensis*** (Horn, 1913)
- Humeral lunule elongated, roundish apically ..... **123. *C. elegantula*** (Dokhtouroff, 1882)
- 4(2). Ground of elytra bicolored, coppery green at the margins, dull blackish green on the disk ..... **127. *C. harmandi*** (Fleutiaux, 1893)
- Ground of elytra unicolored ..... **5**
- 5(4). Labrum with seven teeth ..... **128. *C. bramani*** (Dokhtouroff, 1882)
- Labrum with six teeth, the two central teeth forming a quadrate ..... **6**
- 6(5). Elytral maculation forming a longitudinal band from shoulder to apex ..... **126. *C. interruptofasciata flavolineata*** (Chaudoir, 1865)
- Longitudinal part interrupted into two or three parts ..... **125. *C. interruptofasciata interruptofasciata*** (Schmidt-Goebel, 1846)

**122. *Calochroa flavomaculata flavomaculata*** (Hope, 1831) (Fig. 122, 315)

*Cicindela sexpunctata*: Horn 1902: 66; 1913: 365; 1929: 21.

*Calochroa flavomaculata flavomaculata*: Fedorenko and Matalin 2011: 126, 128; Matalin 2015b: 626.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 21), Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 365); RED RIVER DELTA: Ha Noi City (Horn 1913: 365); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126, 128).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 3 males, 4 females (JWGC); RED RIVER DELTA: Ha Noi City, near Ha Noi, leg. O. Kabakov, 1.x.1961, 2 females, 10-20.x.1962, 1 female (MPU); SOUTHEAST: Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 15-20.vii.1995, 1 male, 1 female (MPU).

**Distribution.** Vietnam (Ha Noi City, Dong Nai, Lam Dong, Lao Cai, Tuyen Quang), China (Guangdong, Guangxi, Hainan, Hong Kong, Sichuan, ?Xizang, Yunnan), Taiwan, Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Saravane, Savanna-khet, Vientiane, Xayabury, Xiengkhuang), Cambodia (Siem Reap, Koh Kong, Rattanakiri), Thailand (Chanthaburi, Chiang Mai, Chiang Rai, Loei, Nakhon Phanom, Nakhon Ratchasima, Ubon Ratchathani), Myanmar (Kachin, Shan), Pakistan, Bangladesh, India (Andaman Is.), Nepal, Sri Lanka, Philippines.

**Remarks.** New provincial record for Lam Dong.

**123. *Calochroa elegantula*** (Dokhtouroff, 1882) (Fig. 123)

*Calochroa mouhoti elegantula*: Wiesner 1992: 106; Matalin 2015b: 626.

**Published data.** Vietnam (Wiesner 1992: 106).

**Distribution.** Vietnam, China (Yunnan), Laos (Bokeo, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Xayabury, Xiengkhuang), Cambodia (Kampong Speu), Thailand (Chaiyaphum, Chantaburi, Chiang Mai, Chiang Rai, Kamphaeng Phet, Kanchanaburi, Loei, Mae Hong Son, Mukdahan, Nakhon Nayok, Phitsanulok, Sakon Nakhon, Sukhothai, Tak, Yasothorn), Malaysia (Malacca).

**124. *Calochroa pseudosiamensis*** (Horn, 1913) (Fig. 124, 316)

*Calochroa mouhoti pseudosiamensis*: Wiesner 1992: 107.

**Published data.** Vietnam (Wiesner 1992: 107).

**New records.** CENTRAL HIGHLANDS: Kon Tum, Ngoc Hoi, Kon Tum, vi.2015, 1 female (SSUC).

**Distribution.** Vietnam (Kon Tum), China (?Yunnan), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Savannakhet, Vientiane, Xiengkhuang), Thailand (Loei, Nakhon Ratchasima, Sakhon Nakhon), Myanmar (Shan).

**Remarks.** New provincial record for Kon Tum.

**125. *Calochroa interruptofasciata interruptofasciata*** (Schmidt-Goebel, 1846) (Fig. 125, 317)

*Cicindela interruptofasciata*: Horn 1902: 66; 1913: 366; 1924: 20.

**Published data.** NORTHWEST: Hoa Binh (Horn 1924: 20); NORTHEAST: Lang Son (Than Moi) (Horn 1902: 66; 1913: 366; 1924: 20).

**New records.** NORTHEAST: Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21°23'3" E105°42'44", 60-80m, leg. A. Skale, 12.v.2012, 1 specimen (ASGC).

**Distribution.** Vietnam (Hoa Binh, Lang Son, Thai Nguyen), Laos (Saravane), China (Guangdong, Hong Kong, Yunnan), Cambodia (Siem Reap), Thailand (Chantaburi, Chiang Mai, Kamphaeng Phet, Kanchanaburi, Loei, Mae Hong Son, Mukdahan, Nakhon Ratchasima, Phitsanulok, Sakhon Nakhon, Sukhothai, Ubon Ratchathani), Myanmar, Malaysia (Malacca).

**Remarks.** New provincial record for Thai Nguyen.

**126. *Calochroa interruptofasciata flavolineata*** (Chaudoir, 1865) (Fig. 126, 318)

*Calochroa interruptofasciata flavolineata*: Matalin 2015b: 626.

**New records.** NORTHEAST: Ha Giang, Bankoa, 1-5.v.2006, 1 female (JWGC); RED RIVER DELTA: Ninh Binh, Cuc Phuong National Park, 270m, N20°17'34.32" E105°40'3.12", leg. A. Skale, 22-24.v.2015, 1 female (ASGC), Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 2 males (MZUF), Vinh Phuc, Tam Dao Dist., Me Linh Biodiversity Center, N21°38'74" E105°71'28", 70m, E. Orbach, 3.vi.2013, 2 females (EOIC), Vinh Phuc, Me Linh Biodiversity Station, N21°23'18" E105°42'46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 female (CSCA).

**Distribution.** Vietnam (Ha Giang, Ninh Binh, Vinh Phuc), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Phongsaly, Savannakhet, Vientiane, Xiengkhuang), Cambodia (Pursat, Rattanakiri), Thailand (Loei, Nakhon Ratchasima, Phitsanulok, Sakhon Nakhon, Ubon Ratchathani), Myanmar.

**Remarks.** New state record for Vietnam and new provincial records for Ha Giang, Ninh Binh and Vinh Phuc.

**127. *Calochroa harmandi*** (Fleutiaux, 1893) (Fig. 127, 319)

*Calochroa harmandi*: Wiesner 1992: 107.

**Published data.** Vietnam (Wiesner 1992: 107).

**New records.** CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, Kon Ka Kinh National Park, N14°12'11" E108°18'54", 890m, leg. D. Fedorenko, 9-22.v.2016, 3 males (MPU, SIEE).

**Distribution.** Vietnam (Gia Lai), Laos (Attapeu, Champasack), Cambodia.

**Remarks.** New provincial record for Gia Lai.

**128. *Calochroa bramani*** (Dokhtouroff, 1882) (Fig. 128, 320)

*Cicindela Mouhoti Bramani*: Horn 1913: 366; 1924: 18.

*Calochroa bramani*: Matalin 2015b: 626.

**Published data.** SOUTHEAST: Tay Ninh (Horn 1913: 366; 1924: 18); Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128)

**New records.** CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 2 males, 1 female (JWGC); SOUTHEAST: Ba Ria-Vung Tau, Vung Tau, Xuyen Moc, leg. N. Belyaeva, 25-26.iv.1990, 1 female (SIEE), Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male (MPU), Binh Phuoc, Bu Gia Map National Park, N12°11'37" E108°12'21", 350-540m, leg. D. Fedorenko, 9-19.iv.2009, 7 males, 4 females, 13.v.2009, 2 males (MPU, SIEE), Dong Nai, Ma Da, leg. S. Kruscop, 3.v.2002, 1 male, 2 females (MPU).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Binh Phuoc, Dong Nai, Lam Dong, Tay Ninh), Laos (Cham-pasack, Saravane, Savannakhet), Cambodia (Siem Reap, Pursat, Kampong Speu), Thailand (Chanthaburi, Loei, Mukdahan, Nakhon Nayok, Sa Kaeo, Sakhon Nakhon, Ubon Ratchathani).

**Remarks.** New provincial records for Ba Ria-Vung Tau, Binh Phuoc and Lam Dong.

### B3.2. Genus *Cicindela* Linné, 1758

#### Key to the species of genus *Cicindela* Linné, 1758

- 1. Antennae completely black ..... **129. *Cicindela (Sophiodela) chinensis chinensis*** (Geer, 1774)
- Antennomeres 1 to 4 and 11 black, 5 to 10 yellow ..... **130. *Cicindela (Pseudoverticina) antennalis*** Cassola, 2011

#### B3.2a. Genus *Cicindela* Linné, 1758, subgenus *Sophiodela* Nakane, 1955

**129. *Cicindela (Sophiodela) chinensis chinensis*** (Geer, 1774) (Fig. 129, 321)

*Cicindela chinensis japonica*: Horn 1929: 21.

**Published data.** NORTHEAST: Quang Ninh (Tien Yen) (Horn 1929: 21).

**Distribution.** Vietnam (Quang Ninh), China (Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, ?Hainan, Hebei, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Nei Mongol, Shaanxi, Shandong, Sichuan, Xinjiang, Yunnan, Zhejiang), Japan (Ryukyu).

#### B3.2b. Genus *Cicindela* Linné, 1758, subgenus *Pseudoverticina* Cassola, 2011

**130. *Cicindela (Pseudoverticina) antennalis*** Cassola, 2011 (Fig. 130, 185, 322)

*Cicindela (Pseudoverticina) antennalis*: Cassola 2011: 1–4.

**Published data.** NORTHEAST: Cao Bang (Mt. Pia Oac) (Cassola 2011: 1).

**New records.** NORTHEAST: Cao Bang, Mt. Pia Oac, 1600–2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14–16.vi.2012, 7 males, 6 females (MZUF).

**Distribution.** Vietnam (Cao Bang).

### B3.3. Genus *Calomera* Motschulsky, 1862

#### Key to the species of genus *Calomera* Motschulsky, 1862

- 1. Clypeus setose ..... **2**
- Clypeus glabrous ..... **3**
- 2(1). Elytral maculation consists of marginal dots only .. **134. *C. funerea funerea*** (Macleay, 1825)
- Elytral maculation consists of lunules and bands ..... **135. *C. funerea genetica*** (Horn, 1926)
- 3(1). Elytral covered with maculae ..... **4**
- Elytra lacking maculation ..... **131. *C. brevopilosa brevopilosa*** (Horn, 1908)
- 4(3). Lateral margins of female elytra expanded laterally; fourth antennomere of male lacking a penicillum ..... **132. *C. angulata angulata*** (Fabricius, 1798)
- Lateral margins of female elytra not expanded; fourth antennomere of male with a penicillum ..... **133. *C. plumigera scoliographa*** (Rivalier, 1953)

**131. *Calomera brevopilosa brevopilosa*** (Horn, 1908) (Fig. 131)*Calomera brevopilosa*: Cassola 2004: 23.**Published data.** ? Bay Tuong, SW Vietnam (Cassola 2004: 23).**Distribution.** Vietnam, China (Beijing, Fujian, Gansu, Henan, Hubei, Jiangsu, Jiangxi, Shandong, Xinjiang, Zhejiang), Laos (Borikhamxay).**132. *Calomera angulata angulata*** (Fabricius, 1798) (Fig. 132, 186, 323)*Cicindela sumatrensis*: Horn 1902: 66; 1929: 21; 1914: 140.*Calomera angulata angulata*: Fedorenko and Matalin 2011: 126, 128; Matalin 2015b: 623.**Published data.** NORTHEAST: Cao Bang (Bao Lac) (Horn 1914: 140); Lao Cai (Sa Pa) (Horn 1929: 21); Tuyen Quang (Chiem Hoa) (Horn 1902: 66); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126, 128).**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao Dist., lake near Me Linh Biodiversity Center, E. Orbach, 3.vi.2013, 1 female (EOIC); NORTH CENTRAL COAST: Nghe An, near Con Cuong, bank of Con River, leg. O. Kabakov, 24.iv.1962, 2 males, 2 female (ZISP), Nghe An, Vinh, N18° 40' E105° 47', leg. V. Sinjaev, E. Afonin, 25.vii.1996, 3 males, 2 females (MPU), Quang Binh, North of Phong Nha-Ke Bang Nature Reserve, on route 15, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 01.vi.2014, 3 females (ABIC), Thua Thien-Hue, Route 1, between Da Nang and Hue, 100m, N16° 12' 0" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 28.v.2014, 12 males, 8 female (ABIC); SOUTH CENTRAL COAST: Khanh Hoa, Cam Ranh Bay, Tiger-Lake, 14.iii.1968, 2 females (JWGC), Khanh Hoa, Cam Ranh Bay, Tiger-Lake, 15.iii.1968, 1 female (JWGC); CENTRAL HIGHLANDS: Kon Tum, Dak Glei, 700m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 4 males, 5 females (ABIC); SOUTHEAST: Dong Nai, Dong Nai Biosphere Reserve, N11° 18' E107° 06', day collecting, leg. J. Constant and J. Bresseel, 25.vi.-6.vii.2012, 1 female (IRSNB).**Distribution.** Vietnam (Cao Bang, Dong Nai, Kon Tum, Lao Cai, Nghe An, Quang Binh, Thua Thien-Hue, Tuyen Quang; Vinh Phuc), China (Anhui, Fujian, Guangdong, Guizhou, Hainan, Hebei, Henan, Hubei, Jiangsu, Jiangxi, Shaanxi, Shanxi, Sichuan, Yunnan, Zhejiang), Taiwan, Laos (Attapeu, Borikhamxay, Champasack, Houaphanh, Khammuane, Phongsaly, Vientiane, Sekong, Xiengkhuang), Cambodia (Rattanakiri), Thailand (Chiang Mai, Chumphun, Mae Hong Son, Nakhon Ratchasima, Phetchaburi, Songkhla, Ubon Ratchathani), Myanmar (Bago, Kachin), Afghanistan, India, Sri Lanka, Pakistan (Punjab), Nepal, Malaysia (Malacca), Indonesia (Sumatra, Sumbawa, Borneo), Philippines (Luzon).**Remarks.** New provincial records for Khan Hoa, Kon Tum, Nghe An, Quang Binh, Thua Thien-Hue and Vinh Phuc.**133. *Calomera plumigera scoliographa*** (Rivalier, 1953) (Fig. 133, 324)*Cicindela angulata*: Horn 1929: 21.*Calomera plumigera scoliographa*: Matalin 2015b: 624.**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 21); RED RIVER DELTA: Ha Noi City (Horn 1929: 21).**New records.** RED RIVER DELTA: Ha Noi City, Ha Noi, garden, leg. L. Medvedev, 8.v.1975, 1 female (ZMMU).**Distribution.** Vietnam (Ha Noi City, Lao Cai), China (Hainan, Yunnan), Laos (Khammuane, Vientiane, Xiengkhuang), Cambodia, Thailand (Chiang Mai, Loei, Surat Thani, Ubon Ratchathani), Malaysia (Malacca).**134. *Calomera funerea funerea*** (Macleay, 1825) (Fig. 134, 186, 325)*Cicindela funerea*: Horn 1914: 140; 1924: 16, 17; 1929: 20.*Cicindela funerea* (= *assimilis*): Horn 1914: 140.*Calomera funerea funerea*: Fedorenko and Matalin 2011: 126, 128; Matalin 2015b: 623.**Published data.** ? Keng Trap (Horn 1914: 140; 1924: 17); NORTHEAST: Ha Giang (Horn 1929: 20), Cao Bang (Bao Lac) (Horn 1914: 140); NORTH CENTRAL COAST: Thua Thien-Hue (Hue) (Horn 1924: 17); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126, 128).**New records.** NORTH CENTRAL COAST: Nghe An, near Con Cuong, bank of Con River, leg. O.



Kabakov, 24.iv.1962, 2 males, 2 female (ZISP), Nge An, bank of Chu [= *Song Chu*] River, N form Quy Chau, leg. O. Kabakov, 28.viii.1962, 1 male (MPU), Nghe An, Vinh, N18° 40' E105° 47', leg. V. Sinjaev, E. Afonin, 25.vii.1996, 3 males, 2 females (MPU), Thua Thien-Hue, Bach Ma National Park, Da Dung river, 70m, N16.22° E107.88°, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 26.v.2014, 10 males, 6 female (ABIC), Thua Thien-Hue, Route 1, between Da Nang and Huie, 100m, N16.3° E108.0°, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 28.v.2014, 4 males, 1 female (ABIC), Quang Binh, North of Phong Nha-Ke Bang Nature Reserve, on route 15, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 01.vi.2014, 2 females (ABIC), Ha Tinh, Vu Quang Nature Reserve, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 01-02.vi.2014, 3 males (ABIC), Thua Thien-Hue, Sao La Nature Reserve, A Luoi District, 300m, N16° 3' 21.6" E107° 28' 48", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 20.v.2017, 1 male (ABIC); CENTRAL HIGHLANDS: Kon Tum, Dak Glei, 700m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 1 male, 1 female (ABIC); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 13.iv.2009, 3 males, 8 females (MPU, SIEE), Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, D. Volkov, 2-8.iv.1994, 1 male, 1 female (MPU), Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 7-21.vi.1995, 1 male (ANLC).

**Distribution.** Vietnam (Binh Phuoc, Cao Bang, Dong Nai, Ha Giang, Ha Tinh, Kon Tum, Nghe An, Quang Binh, Thua Thien-Hue), China (Hainan), Laos (Attapeu, Borikhamxay, Champasack, Khammuane, Luangnamtha, Luangprabang, Savannakhet, Vientiane), Cambodia (Rattanakiri), Thailand (Chanthaburi, Kamphaeng Phet, Mae Hong Son, Nakhon Sawan, Nakhon Si Thammarat, Phangnga, Phitsanulok, Prachuap Kiri Khan, Sa Kaeo, Surat Thani), Myanmar (Shan), India (Andhra Pradesh, Bihar, Western Bengal), Malaysia (Malacca), Indonesia (?Sumatra, Jawa, Sulawesi).

**Remarks.** New provincial records for Binh Phuoc, Ha Tinh, Kon Tum, Nghe An and Quang Binh.

### 135. *Calomera funerea genetica* (Horn, 1926) (Fig. 135, 326)

*Cicindela funerea genetica*: 1926: 169.

**Published data.** NORTH CENTRAL COAST: Quang Tri (Horn 1926: 169).

**Distribution.** Vietnam (Quang Tri).

## B3.4. Genus *Cosmodela* Rivalier, 1961 (Fig. 182)

### Key to the species of genus *Cosmodela* Rivalier, 1961

1. Posteroir angle of pronotum without decumbent white setae ..... **136. *C. duponti duponti*** (Dejean, 1826)
- Posteroir angle of pronotum without decumbent white setae ..... **2**
- 2(1). Central dot of elytra large and more or less roundish ..... **137. *C. juxtata*** (Acciavatti and Pearson, 1989)
- Shape of central dot not large and not roundish ..... **3**
- 3(2). Central dot slender, comma-shaped ..... **138. *C. virgula*** (Fleutiaux, 1893)
- Central maculae consisting of two dots, connected by a small line ..... **139. *C. separata*** (Fleutiaux, 1893)

### 136. *Cosmodela duponti duponti* (Dejean, 1826) (Fig. 136, 187, 327)

*Cicindela Duponti*: Horn 1913: 365; 1924: 17.

*Cicindela Duponti barmanica*: Horn 1929: 21.

*Cosmodela duponti*: Fedorenko and Matalin 2011: 125, 127, 128.

**Published data.** NORTHEAST: Quang Ninh (Tien Yen) (Horn 1929: 21); NORTH CENTRAL COAST: Quang Tri (Horn 1924: 17), Thua Thien-Hue (Hue) (Horn 1913: 365); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 125, 127, 128).

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Thanh So'n, 86m, N21° 12'

48.72" E106° 45' 50.76", leg. A. Skale, 18-21.v.2015, 1 male (ASGC), Ha Giang, Phu Yen, local collector, iv.2015, 1 female (JGGC), Lao Cai, Lao Cai, v.2015, local collector, 1 male (JGGC); NORTH CENTRAL COAST: Ha Tinh, Vu Quang Nature Reserve, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 1-2.v.2014, 5 females (ABIC), Quang Binh, Minh Hoa distr., 8 km SO of Yen Hop, leg. S. Kruskop, 24-25.iv.1999, 3 males, 2 females (MPU); Thua Thien-Hue, Bach Ma National Park, Do Quyen water falls, 1250m, N16° 11' 24" E107° 51' 0", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 24.v.2014, 9 males, 3 females (ABIC), Thua Thien-Hue, Bach Ma National Park, surr. Hotel Morin, 1350-1400m, N16° 11' 24" E107° 51' 0", leg. L. Bartolozzi, G. Chelazzi, A. Bandinelli, S. Bambi, F. Fabiano, 23-28.v.2014, 8 males, 14 females (ABIC), 2 males, 3 females (MZUF), Thua Thien-Hue, Bach Ma National Park, around Hotel Morin, 1400m, E107° 51' 00" N16° 12' 00", L. Bartolozzi, 24-27.v.2014, 2 females (EOIC), Thua Thien-Hue, Bach Ma National Park, Tri Sao, 400m, N16° 13' 12" E108° 31' 30", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 25.v.2014, 1 female (ABIC), Thua Thien-Hue, Bach Ma National Park, Da Dung river; N16° 13' 12" E107° 52' 48", leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 26.v.2014, 1 male, 2 females (ABIC), Thua Thien-Hue, Bach Ma National Park, 1250m, N16° 11' 34.8" E107° 51' 10.8", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 29-31.v.2017, 1 female (ABIC), Thua Thien-Hue, Phong Dien Nature Reserve, leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 25.v.2017, 1 female (ABIC), Thua Thien-Hue, Sao La Nature Reserve, Rangers HQ, A Luoi District, 650m, N16° 4' 37.2" E107° 29' 16.8", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 20.v.2017, 1 female (ABIC), Thua Thien-Hue, Sao La Nature Reserve, A Luoi District, 300m, N16° 3' 21.6" E107° 28' 48", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 20.v.2017, 3 males, 1 female (ABIC); SOUTH CENTRAL COAST: Da Nang City, Bach Ma National Park, N16° 10' E107° 54', 1200m, leg. V. Sinjaev, E. Afonin, 25-26.vii.1996, 3 males (MPU), local collector, v.2015, 1 male, 3 females (JGGC), Khanh Hoa, Hon Ba Nature Reserve, N12° 7' 12" E108° 56' 52.8", 1500m, Bezark, Bicha, Mudge and Schiff, 13-16.vi.2015, 1 female (CSCA), Thua Thien-Hue, A Luoi district, Sao La Nature Reserve, 315m, N16° 03' 22" E107° 28' 50", E. Orbach, 27.v.2017, 1 female (EOIC); SOUTHEAST: Dong Nai, Dong Nai Biosphere Reserve N11° 18' E107° 06', leg. J. Constant and J. Bresseel, 25.vi.-6.vii.2012, 5 males, 1 female (IRSNB), Dong Nai, Cat Tien National Park, around park headquarters, N11° 25' 12" E107° 25' 38", E. Orbach, 11.vi.2015, 1 female (EOIC), Dong Nai, Cat Tien National Park, N11° 27' 37" E107° 22' 29", E. Orbach, 14.vi.2015, 2 females (EOIC); CENTRAL HIGHLANDS: Gia Lai, Kon Cha Rang, leg. Yu. Zaitsev, 23-30.xii.1989, 1 male (MPU), Gia Lai, Buon Luoi, leg. L. Medvedev, v.1983, 2 males (MPU), Lam Dong, Nam Cat Tien, leg. Dembicky and Pacholatko, v./vi.1994, 4 males, 9 females (JWGC), Lam Dong, Bidoup-Nui Ba National Park, N12° 26' E108° 30', day coll., leg. J. Constant and J. Bresseel, 21-25.vii.2014, 2 males (IRSNB), Kon Tum, Dak Gle, 700 m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 2 males, 1 female (ABIC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordon, 11-15.vi.2015, 3 males, 1 female (MZUF), Lam Dong, Bi Doup National Park, N12° 10' 55.2" E108° 40' 48", 1456m, L. G. Bezark, 6-10.vi.2015, 1 male (CSCA), Lam Dong, Madagui, leg. Schulz, 7.ix.2012, 1 female (JGGC); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 13.24.iv.2009, 3 males, 2 females (MPU, SIEE).

**Distribution.** Vietnam (Bac Giang, Binh Phuoc, Da Nang City, Gia Lai, Dong Nai, Ha Giang, Ha Tinh, Khanh Hoa, Kon Tum, Lao Cai, Lam Dong, Quang Binh, Quang Ninh, Quang Tri, Thua Thien-Hue), China (Yunnan), Laos (Attapeu, Borikhamxay, Champasack, Khammuane, Saravane), Thailand (Mae Hong Son, Ubon Ratchathani), Myanmar (Kachin, Sagaing, Shan), Bangladesh (Dacca), India (Karnataka, Goa, Kerala, Mahya Pradesh, Bihar, Assam, Meghalaya, Arunachal Pradesh, Nagaland, Manipur), Malaysia (Malacca).

**Remarks.** New provincial records for Bac Giang, Binh Phuoc, Da Nang City, Gia Lai, Ha Giang, Ha Tinh, Khanh Hoa, Kon Tum, Lao Cai, Lam Dong and Quang Binh.

**137. *Cosmodela juxtata*** (Acciavatti and Pearson, 1989) (Fig. 137, 179, 328)

*Cicindela aurulenta* var. *flavomaculata*: Horn 1929: 21.

*Cicindela aurulenta* var. *Batesi*: Horn 1924: 18.

*Cicindela aurulenta*: Horn 1902: 66; 1913: 365; 1929: 21.

*Cicindela aurulenta juxtata*: Acciavatti and Pearson 1989: 131; Matalin 2015b: 624.

*Cosmodela juxtata*: López-López, Abdul Aziz and Galán 2015: 6.

**Published data.** NORTHEAST: Lang Son (Than Moi) (Horn 1902: 66), Lao Cai (Sa Pa) (Horn 1913: 365; 1924: 18; 1929: 21), Tuyen Quang (Chiem Hoa) (Horn 1902: 66); MEKONG DELTA: Kien Giang (Phu Quok) (Horn 1929: 21).

**New records.** NORTHWEST: Hoa Binh, Yen Thuy distr., Hang Tram, N21°23' E105°36', 50m, leg. S. Belokobylskij, 29.iv.2002, 1 male, 2 females (ZISP, MPU), Lai Chau, A Pa Chai, via Li Jingke, 16-25. iv.2007, 1 male (JWGC); NORTHEAST: Bac Kan, Ba Bè National Park (entry), N22°25'07" E105°38'09", 180-220m, leg. A. Skale, 16-20.v.2014, 3 specimens (ASGC), leg. A. Weigel, 18.v.2014, 1 male, 1 female (NMEG), 1 male, 1 female, JGGC), Cao Bang, vic. Thin Tuc, Son Dong, Nui Pia Oac Nature Reserve, N22°37'55" E105°52'98", 950-1300m, leg. A. Skale, 9-15.v.2014, 1 specimen (ASGC), Lao Cai, Tonkin, Sa Pa, leg. J. Vondráček, 11-19.vi.1990, 1 female (ANLC), Thai Nguyen, Xa Trung M., Ngoc Thanh, vic. Me Linh, leg. A. Weigel, 12.v.2012, 5 males, 3 females, (NMEG); RED RIVER DELTA: Vinh Phuc, Tam Dao, J. Visa leg., 27.v.-2.vi.1986, 1 male, 3 females (JWGC), Vinh Phuc, Tam Dao, J. Strnad leg., 12-24.v.1989, 1 male, 1 female (JWGC), Vinh Phuc, Tam Dao, 900m, leg. O. Kabakov, 3.vi.1962, 1 female (MPU), Vinh Phuc, Tam Dao, vi.1990, 1 male (SSBC), Vinh Phuc, Tam Dao, 1200m, leg. V. Sinjaev, 17.iii.1993, 2 males, 2 females (MPU), Vinh Phuc, Tam Dao, N21°27'52" E105°38'46", 1200m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male, 4 females (CSCA).

**Distribution.** Vietnam (Bac Kan, Cao Bang, Hoa Binh, Kien Giang, Lai Chau, Lang Son, Lao Cai, Thai Nguyen, Tuyen Quang, Vinh Phuc), China (Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hainan, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Shandong, Shanghai, Sichuan, Xinjiang, Xizang, Yunnan, Zhejiang), Laos (Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane, Xayabury, Xiengkhuang), Cambodia (Pursat, Koh Kong, Kampot, Rattanakiri), Thailand (Chantaburi, Chiang Mai, Chiang Rai, Kanchanaburi, Loei, Mae Hong Son, Nakhon Sawan, Nakhon Si Thammarat, Phitsanulok, Ranong, Surat Thani, Trang, Ubon Ratchathani), Myanmar (Bago, Shan), India (Arunachal Pradesh, Assam, Meghalaya).

**Remarks.** *C. juxtata* recently was suggested as a separate species on the results of DNA analysis (López-López, Abdul Aziz and Galán 2015: 6). Unfortunately the authors did not use „comb. nov.” for elevation into species rank according to ICZN and interconvert the morphological features of *C. aurulenta* and *C. juxtata*: not *C. aurulenta* is the larger one with bigger elytral spots, but *C. juxtata*. New provincial records for Bac Kan, Cao Bang, Hoa Binh, Lai Chau, Thai Nguyen and Vinh Phuc.

### 138. *Cosmodela virgula* (Fleutiaux, 1893) (Fig. 138, 329)

*Cicindela aurulenta virgula*: Horn 1913: 365; 1924: 18.

**Published data.** NORTHEAST: Lao Cai (Horn 1913: 365; 1924: 18).

**New records.** NORTHWEST: Hoa Binh, near Hoa Binh, leg. L. Medvedev, 2.x.1979, 1 female (MPU), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF), Hoa Binh, Pa Co Hang Kia Nature Reserve, 900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, at light, 9-12.vi.2013, 1 male (MZUF); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21°9'57.9" E106°49'33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 2 males (JWGC), Bac Kan, Ba Be National Park, 350m, E. Orbach, 3/8.vi.2011, 1 male, 1 female (EOIC), Bac Kan, BaBe National Park, N22°24'19" E105°36'55", day collecting, leg. J. Constant and J. Bresseel, 2-7.vii.2015, 8 males, 2 females (IRSNB), Cao Bang, Nguyen Binh, Pia Oac Nature Reserve, 1400m, leg. E. Orbach, 14-16.vi.2012, 3 males, 2 females (EOIC), Cao Bang, Mt. Pia Oac, 1600-2000m, L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16. vi.2012, 6 males, 4 females (MZUF), Lao Cai, Tonkin, Sa Pa, leg. J. Vondráček, 11-19.vi.1990, 1 female (ANLC), Lao Cai, Hoang Lien National Park, Cat Cat, N22°19'16.56" E103°49'36.18", 1263m, leg. R. Gerstmeier, 15.v.2015, 2 females (JWGC), Phu Tho, Tan Son Dist., Xuan Son National Park, 400m, E. Orbach, 18-20.vi.2012, 2 males, 2 females (EOIC), Phu Tho, Xuan Son National Park, 500m, at light, L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 1 female (MZUF), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21°23'3" E105°42'44", 60-80m, leg. A. Skale, 12.v.2012, 15 specimens (ASGC), Thai Nguyen, Tam Dao National Park env., Tam Dao vill. env., N21°28' E105°38', vii.2015, 1 male (SSUC), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, at light, 1 male, 3 females (MZUF); RED RIVER DELTA: Ha Noi City, Ba Vi Dist., Ba Vi National Park, 700m, leg. E. Orbach, 21-24.vi.2012, 1 female (EOIC), Ha Noi City, BaVi National Park, N21°4'4" E105°21'30", night collecting, leg. J. Constant

and J. Bresseel, 25-29.vi.2015, 1 male, 1 female (IRSNB), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 6 males, 5 females (ABIC), Ninh Binh, Cuc Phuong National Park, 270m, N20° 17' 34.32" E105° 40' 3.12", leg. A. Skale, 22-24.v.2015, 1 male, 2 females (ASGC), Vinh Phuc, Tam Dao Dist., Tam Dao National Park, N21° 47' 52" E105° 63' 00", 950m, E. Orbach, 1-3.vi.2013, 1 female (EOIC), Vinh Phuc, Tam Dao National Park, 950m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 1-4.vi.2013, 2 males (MZUF), Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 1 male, 2 females (MZUF), Vinh Phuc, Me Linh Biodiversity Station, N21° 23' 18" E105° 42' 46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 male (CSCA). **Distribution.** Vietnam (Bac Giang, Bac Kan, Cao Bang, Ha Noi City, Hoa Binh, Lao Cai, Ninh Binh, Phu Tho, Thai Nguyen, Tuyen Quang, Vinh Phuc), China (Fujian, Guangdong, Guangxi, Hainan, Hong Kong, Jiangsu, Shandong, Shanghai, Sichuan, Yunnan), Laos (Borikhamxay, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane, Xiengkhuang), Cambodia, Thailand (Chiang Mai, Chiang Rai), Myanmar (Kachin, Sagaing, Shan), Bangladesh, India (Himachal Pradesh, Uttar Pradesh, Bihar, Western Bengal, Nagaland, Meghalaya, Assam, Tripura, Arunachal Pradesh, Sikkim), Bhutan, Nepal.

**Remarks.** New provincial records for Bac Giang, Bac Kan, Cao Bang, Ha Noi City, Hoa Binh, Ninh Binh, Phu Tho, Thai Nguyen, Tuyen Quang and Vinh Phuc.

**139. *Cosmodela separata*** (Fleutiaux, 1893) (Fig. 139, 330)

*Cosmodela separata*: Cassola 2004: 24.

**Published data.** NORTHEAST: Ha Giang (Bac Quang = Bak-Kuang) (Cassola 2004: 24).

**New records.** NORTHEAST: Bac Kan, BaBe National Park, N22° 24' 19" E105° 36' 55", day collecting, leg. J. Constant and J. Bresseel, 2-7.vii.2015, 1 female (IRSNB), Lao Cai, Hoang Lien National Park, Cat Cat, N22° 19' 16.56" E103° 49' 36.18", 1263m, leg. R. Gerstmeier, 15.v.2015, 2 males (JWGC), Lao Cai, Sapa, Cat Cat Village, 1344 m, M. Hori leg., 20-23.v.2012, 1 male, 1 female (JWGC).

**Distribution.** Vietnam (Bac Kan, Ha Giang, Lao Cai), China (Anhui, Fujian, Henan, Hubei, Hunan, Jiangsu, Shanghai, Shanxi, Yunnan, Zhejiang).

**Remarks.** New provincial records for Bac Kan and Lao Cai.

**B3.5. Genus *Lophyra*** Motschulsky, 1859

**Key to the subgenera of genus *Lophyra*** Motschulsky, 1859

- 1. Head with decumbent setae clustered dorsally at posterior margin of each eye ..... **B3.5.1. *Lophyra*** Motschulsky, 1859
- Head entirely glabrous ..... **2**
- 2(1). Labrum with three or five teeth on anterior margin ..... **B3.5.2. *Spilodia*** Rivalier, 1961
- Labrum with a single tooth only ..... **B3.5.3. *Spilodella*** Matalin and Cherkasov, 2004, (represented in Vietnam by one species only) **146. *L. (S.) cora*** Matalin and Cherkasov, 2004

**B3.5.1. Subgenus *Lophyra*** s. str.

**Key to the species of subgenus *Lophyra*** Motschulsky, 1859

- 1. All elytral maculae isolated from each other ..... **142. *L. (L.) kuznetzowi*** Tscherkasov, 1992
- Elytral maculae connected, at least the marginal ones ..... **2**



- 2(1). Elytral maculae wide, posterior margin of eyes with decumbent white setae ..... 141. *L. (L.) cancellata cancellata* (Dejean, 1825)  
 — Elytral maculae slender, posterior margin of eyes without white setae ..... 140. *L. (L.) fuliginosa* (Dejean, 1826)

**140. *Lophyra (Lophyra) fuliginosa*** (Dejean, 1826) (Fig. 140, 188, 331)

*Cicindela fuliginosa*: Horn 1902: 66; 1913: 366; 1924: 21.

*Lophyra (Lophyra) fuliginosa*: Fedorenko and Matalin 2011: 128; Matalin 2015b: 624.

**Published data.** NORTHEAST: Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 366; 1924: 21); CENTRAL HIGHLANDS: Lam Dong (Quang Loi) (Horn 1924: 14); MEKONG DELTA: Can Tho City (Thanh Loi) (Horn 1924: 21); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 1 male (JWGC); NORTHEAST: Bac Kan, Ba Be National Park. (entry), 180-220m, N22° 25' 07" E105° 28' 09", leg. A. Skale, 16-20.v.2014, 1 female (ASGC); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, N14° 28' 26.4" E108° 32' 24", 900 m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8-12.v.2016, 4 males, 1 female (ABIC), l. c., light trap, 8.v.2016, 3 males, 2 females (ABIC), Gia Lai, Kon Chu Rang Nature Reserve, surroundings HQ, N14° 28' 27" E108° 32' 24.06", 900m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordoni, 9-12.v.2016, 3 females (MZUF), Kon Tum, surroundings of Kon Plong, N14° 40' 19.2" E108° 15' 50.4", 1250m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 4.v.2016, 1 male (ABIC), Kon Tum, surroundings of Kon Plong, N14° 39' 57.6" E108° 15' 21.6", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 5.v.2016, 1 female (ABIC), Kon Tum, surroundings of Kon Plong, N14° 40' 8.4" E108° 15' 32.4", 660m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8.v.2016, 1 female (ABIC), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 24 males, 19 females (JWGC); SOUTHEAST: Ba Ria-Vung Tau, central part of Con Son Island, N8° 42' E106° 35', 10-300m, Leg. A.V. Abramov, vi.2010, 3 males, 7 females (ZISP), Ba Ria-Vung Tau, Con Son Isl., Con Dao National Park, N8° 41' 30" E106° 38' 00", day collecting, leg. J. Constant and J. Bresseel, 17-24. vi.2012, 8 males, 3 females (IRSNB), Ninh Thuan, Phuoc Binh National Park, N12° 04' E108° 45', leg. J. Constant and J. Bressel, 26.vii.2014, 4 males, 1 female (IRSNB), Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 2 males, 2 females (ANLC), Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 13-17. iv.2009, 2 males, 2 females (MPU, SIEE).

**Distribution.** Vietnam (Bac Kan, Ba Ria-Vung Tau, Binh Phuoc, Can Tho City, Dong Nai, Gia Lai, Kon Tum, Lai Chau, Lam Dong, Ninh Thuan, Tuyen Quang), China (Guangdong, Guangxi, Shanghai, Yunnan, Zhejiang), Laos (Attapeu, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Saravane, Vientiane), Cambodia (Koh Kong, Rattanakiri), Thailand (Mae Hong Son, Chiang Mai, Trang, Phuket, Nakhon Ratchasima, Nakhon Nayok, Nakhon Sawan, Nakhon Ratchasima, Chanthaburi, Rayong, Ubon Ratchathani, Loei, Surat Thani, Sakon Nakhon), Myanmar (Kachin, Sagaing, Shan), Sri Lanka, Malaysia (Malacca), Indonesia (Borneo, Bali, Jawa, Sumatra).

**Remarks.** New provincial records for Bac Kan, Ba Ria-Vung Tau, Binh Phuoc, Gia Lai, Kon Tum, Lai Chau and Ninh Thuan.

**141. *Lophyra (Lophyra) cancellata cancellata*** (Dejean, 1825) (Fig. 141, 188, 332)

*Cicindela cancellata*: Horn 1914: 139; 1924: 21.

*Lophyra (Lophyra) cancellata cancellata*: Matalin 2015b: 624.

**Published data.** RED RIVER DELTA: Ha Noi City (Horn 1914: 139); SOUTHEAST: Ho Chi Minh City (Horn 1924: 5 = Saigon).

**New records.** NORTH CENTRAL COAST: Nghe An, near Con Cuong, bank of Con River, leg. O. Kabakov, 24.iv.1962, 1 male, 1 female (ZISP), Nge An, S form Quy Chau, 200m, leg. O. Kabakov, 14.xii.1963, 1 male (MPU); CENTRAL HIGHLANDS: Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3.v.2016, 1 male, 2 females (ABIC).

**Distribution.** Vietnam (Ha Noi City, Ho Chi Minh City, Kon Tum, Nghe An), China (Fujian, Hainan, Jiangxi, Yunnan), Laos (Bokeo, Khammuane, Phongsaly, Savannakhet, Vientiane, Xayabury), Cambodia, Thailand (Chiang Mai, Kamphaeng Phet, Kanchanaburi, Mae Hong Son, Mukdahan, Nakhon Sawan,

Phatthalung, Phetchaburi, Phitsanulok, Prachuab Kiri Khan, Saraburi, Trang, Ubon Ratchathani), Myanmar (Kachin), Bangladesh, India (Maharashtra, Karnataka, Kerala, Tamil Nadu), Sri Lanka, Malaysia (Malacca).

**Remarks.** New provincial records for Kon Tum and Nghe An.

**142. *Lophyra (Lophyra) kuznetzowi*** Tscherkasov, 1992 (Fig. 142, 333)

*Cicindela (Lophyra) kuznetzowi*: Tscherkasov 1992: 478-482.

*Cicindela (Lophyra) murzini* Werner, 1992: 399-401.

**Published data.** SOUTHEAST: Dong Nai (Suen Moc) (Tscherkasov 1992: 478, Werner, 1992: 399).

**Distribution.** Vietnam (Dong Nai).

**B3.5.2. Subgenus *Spilodia*** Rivalier, 1961

**Key to the species of subgenus *Spilodia*** Rivalier, 1961

1. Labrum of male and female tridentate; humeral elytral lunule slender separated from middle spot; ..... **145. *L. (S.) lineifrons*** (Chaudoir, 1865)
- Labrum of female with five tooth, labrum of male with three to five tooth; humeral lunule wide, extended to or connected with middle spot; ..... **2**
- 1(2). Humeral lunule, middle spot and frontal apical spot connected, forming an evenly band ..... **144. *L. (S.) striolata dorsolineolata*** (Chevrolat, 1845)
- Humeral lunule, middle spot and frontal apical spot more or less isolated, not forming an evenly band ..... **143. *L. (S.) striolata striolata*** (Illiger, 1800)

**143. *Lophyra (Spilodia) striolata striolata*** (Illiger, 1800) (Fig. 143, 334)

*Cicindela striolata*: Horn 1902: 66; 1913: 366; 1924: 21; 1929: 20.

*Lophyra (Spilodia) striolata striolata*: Fedorenko and Matalin 2011: 127, 128; Matalin 2015b: 624.

**Published data.** NORTHEAST: Ha Giang (Horn 1929: 20), Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 366; 1924: 21), Lang Son (Than Moi) (Horn 1902: 66; 1913: 366; 1924: 21), Lao Cai (Sa Pa) (Horn 1929: 20), Quang Ninh (Tien Yen) (Horn 1929: 20), Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 366; 1924: 21); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 2 males, 3 females (JWGC); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, 15 km N of ranger HQ, N14° 31' 12" E108° 28' 12", 1100 m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 9-11.v.2016, 1 male, 1 female (ABIC), Kon Tum, Dak Glei, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 30-31.v.2014, 1 male (ABIC), Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3.v.2016, 8 males, 5 females (ABIC), l. c., light trap, 3-6.v.2016, 2 males (ABIC), Kon Tum, surroundings of Kon Plong, N14° 37' 21" E108° 17' 39.06", 1120m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 4-7.v.2016, 3 males, 3 females (MZUF); SOUTHEAST: Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male (ANLC), Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 7.vi.1995, 1 male, 3-11.vii.1995, 1 female (ANLC).

**Distribution.** Vietnam (Binh Phuoc, Dong Nai, Gia Lai, Ha Giang, Kon Tum, Lai Chau, Lang Son, Lao Cai, Quang Ninh, Tuyen Quang), China (Guangxi, Hainan, Yunnan), Laos (Bokeo, Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Saravane, Savannakhet, Xayabury, Vientiane), Cambodia (Pursat, Koh Kong), Thailand (Chantaburi, Chiang Mai, Chiang Rai, Kamphaeng Phet, Kanchanaburi, Lampang, Nakhon Ratchasima, Nakhon Si Thammarat, Ranong, Ubon Ratchathani), Myanmar (Kachin, Shan), Bangladesh, India (Maharashtra, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Uttar Pradesh, Himachal Pradesh, Madhya Pradesh, Bihar,

Orissa, Western Bengal, Arunachal Pradesh, Meghalaya, Assam, Sikkim), Nepal, Malaysia (Malacca, Borneo), Indonesia (Sumatra, Jawa, Bali, Sulawesi), Philippines.

**Remarks.** New provincial records for Binh Phuoc, Gia Lai, Lai Chau and Kon Tum.

**144. *Lophyra (Spilodia) striolata dorsolineolata*** (Chevrolat, 1845) (Fig. 144, 335)

*Cicindela striolata* var. *dorsolineolata*: Horn 1929: 20.

**Published data.** NORTHEAST: Quang Ninh (Tien Yen) (Horn 1929: 20).

**New records.** NORTHEAST: Bac Giang, Ba Be National Park. (entry), 180-220m, N22° 25' 07" E105° 28' 09", leg. A. Skale, 16-20.v.2014, 2 males (ASGC), Bac Kan, Ba Be National Park, 350m, leg. E. Orbach, 3/8.vi.2011, 1 male, 1 female (EOIC), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21° 23' 3" E105° 42' 44", 60-80m, leg. A. Skale, 12.v.2012, 1 specimen (ASGC), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, at light, 1 female (MZUF); RED RIVER DELTA: Ninh Binh, Cuc Phuong National Park, N20° 17' 34.32" E105° 40' 3.12", 270m, leg. A. Skale, 22-24.v.2015, 1 specimen (ASGC), Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 5 males, 1 female (MZUF), Vinh Phuc, Tam Dao Dist., Me Linh Biodiversity Center, N21° 38' 74" E105° 71' 28", 70m, E. Orbach, 3.vi.2013, 1 male (EOIC); NORTH CENTRAL COAST: Ha Tinh, Vu Quang Nature Reserve, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 1-2.v.2014, 1 male (ABIC); Quang Binh, Minh Hoa distr., 8 km SO of Yen Hop, leg. A. Deviatkin, S. Krusko, 20-25.iv.1999, 3 males (MPU, SIEE), Thua Thien-Hue, Sao La Nature Reserve, A Luoi District, 300m, N16° 3' 21.6" E107° 28' 48", leg. A. Bandinelli, L. Bartolozzi, E. Orbach, S. Bambi, 21.v.2017, 2 males, 2 females (ABIC).

**Distribution.** Vietnam (Bac Giang, Bac Kan, Ha Tinh, Ninh Binh, Quang Binh, Quang Ninh, Thai Nguyen, Thua Thien-Hue, Tuyen Quang, Vinh Phuc), China (Anhui, Beijing, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hebei, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Shandong, Sichuan, Yunnan, Zhejiang), Taiwan, Indonesia (Sulawesi), Philippines, Japan (Ryukyu).

**Remarks.** New provincial records for Bac Giang, Bac Kan, Ha Tinh, Ninh Binh, Quang Binh, Thai Nguyen, Thua Thien-Hue, Tuyen Quang and Vinh Phuc.

**145. *Lophyra (Spilodia) lineifrons*** (Chaudoir, 1865) (Fig. 145, 336)

*Cicindela striolata lineifrons*: Horn 1902: 66; 1913: 366; 1924: 21.

*Lophyra (Spilodia) lineifrons*: Fedorenko and Matalin 2011: 127, 128;

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 366), Lao Cai (Horn 1913: 366); MEKONG DELTA: Can Tho City (Thanh Loi) (Horn 1924: 21); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 3 males (JWGC); NORTHEAST: Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF); RED RIVER DELTA: Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 11 males, 1 female (MZUF), Vinh Phuc, Tam Dao Dist., Me Linh Biodiversity Center, N21° 38' 74" E105° 71' 28", 70m, E. Orbach, 3.vi.2013, 1 male (EOIC), Vinh Phuc, Me Linh Biodiversity Station, N21° 23' 18" E105° 42' 46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 male (CSCA); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, surroundings HQ, N14° 28' 27" E108° 32' 24.06", 900m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordoni, 9-12.v.2016, 1 male (MZUF), Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3.v.2016, 1 female (ABIC), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 11 males, 10 females (JWGC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordoni, 11-15.vi.2015, 1 female (MZUF); SOUTHEAST: Ba Ria-Vung Tau, Con Son Isl., Con Dao National Park, N8° 41' 30" E106° 38' 00", day collecting, leg. J. Constant and J. Bresseel, 17-24.vi.2012, 1 female (IRSNB), Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 12-17.iv.2009, 1 male, 1 female (MPU, SIEE), Dong Nai, Ma Da, at light, leg. N. Belyaeva, 31.v.1990, 1 female (SIEE), Dong Nai, Ma Da, leg. S. Krusko, 2.v.2002, 2 males, 2 females (MPU), Dong Nai, 120 km NNE of Ho Chi Minh, Nam Cat Tien National Park, leg. A. Napolov, 7-21.vi.1995, 1 male (MPU), Dong Nai, Cat Tien National Park, around park headquarters,

N11°25'12" E107°25'38", E. Orbach, 11.vi.2015, 1 male (EOIC).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Binh Phuoc, Can Tho City, Dong Nai, Gia Lai, Kon Tum, Lai Chau, Lam Dong, Lang Son, Lao Cai, Tuyen Quang, Vinh Phuc), China (Yunnan), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Saravane, Savannakhet, Xayabury, Vientiane, Xiengkhuang), Cambodia (Siem Reap, Pursat, Koh Kong, Kampong Speu, Kampot, Rattanakiri), Thailand (Chantaburi, Chiang Mai, Chiang Rai, Kanchanaburi, Krabi, Loei, Mae Hong Son, Nakhon Ratchasima, Nakhon Si Thammarat, Nan, Phangnga, Phitsanulok, Sakon Nakhon, Sukhothai, Tak, Trang, Ubon Ratchathani, Yala, Yasothorn), Myanmar (Kachin, Sagaing, Shan, Yangon), Bangladesh (Chittagong Hill Tracts), India (Uttar Pradesh, Meghalaya, Western Bengal, Assam), Nepal, Malaysia (Malacca).

**Remarks.** New provincial records for Ba Ria-Vung Tau, Binh Phuoc, Gia Lai, Kon Tum, Lai Chau, Lam Dong, Tuyen Quang and Vinh Phuc.

### B3.5.3. Subgenus *Spilodella* Matalin and Cherkasov, 2004

#### 146. *Lophyra (Spilodella) cora* Matalin and Cherkasov, 2004 (Fig. 146, 337)

*Lophyra (Spilodella) cora*: Matalin and Cherkasov 2004: 6-10.

**Published data.** SOUTHEAST: Dong Nai (Suen Moc) (Matalin and Cherkasov 2004: 6).

**New records.** SOUTHEAST: Ba Ria-Vung Tau, Long Hai, leg. Snizek, 25.iv.1989, 1 female (JWGC).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Dong Nai).

**Remarks.** New provincial record for Ba Ria-Vung Tau.

### B3.6. Genus *Naviauxella* Cassola, 1988

#### Key to the species of genus *Naviauxella* Cassola, 1988

- |       |  |  |
|-------|--|--|
| 1.    | Elytra with longitudinal brown band from base to middle lunule ..... | 2  |
| —     | Elytra without longitudinal brown band .....                         | 3  |
| 2(1). | Apical part of elytral middle lunule slender and descending .....    |  |
|       | .....149. <i>N. rufovittata</i> Cassola and Werner, 1995             |  |
| —     | Apical part of elytral middle lunule roundish and/or upturning ..... |  |
|       | .....150. <i>N. snowiana</i> Cassola, 2002                           |  |
| 3(1). | Elytral maculae large; body length smaller than 7 mm .....           | 147. <i>N. labiosa</i> Naviaux, 1996     |
| —     | Elytral maculae small; body length 7 mm or larger .....              | 148. <i>N. acciavattii</i> Naviaux, 1996 |

#### 147. *Naviauxella labiosa* Naviaux, 1996 (Fig. 147, 338)

*Naviauxella labiosa*: Naviaux 1996b: 68, 69; Matalin 2002: 185-186.

**Published data.** CENTRAL HIGHLANDS: Dak Lak (33 km NE Buon Ma Thuot) (Naviaux 1996b: 69); Dak Lak (25 km SW Buenmethuot) (Matalin 2002: 185-186).

**Distribution.** Vietnam (Dak Lak).

#### 148. *Naviauxella acciavattii* Naviaux, 1996 (Fig. 148, 339)

*Naviauxella acciavattii*: Naviaux 1996b: 67-68; Cassola 2002: 342.

**Published data.** CENTRAL HIGHLANDS: Gia Lai (40 km SW Play Cu) (Naviaux 1996b: 68; Cassola 2002: 342).

**New records.** CENTRAL HIGHLANDS: Gia Lai, ~ 40 km NEE of Pleiku, Kon Ka Kinh National Park, N14°12'11" E108°18'54", 890m, leg. D. Fedorenko, 9-22.v.2016, 2 males, 1 female (MPU, SIEE).

**Distribution.** Vietnam (Gia Lai).



**149. *Naviauxella rufovittata*** Cassola and Werner, 1995 (Fig. 149, 180, 340)*Naviauxella rufovittata*: Cassola and Werner, 1995: 44-46; Cassola 2002: 341.**Published data.** CENTRAL HIGHLANDS: Gia Lai (An Khe, Tram Lap) (Cassola 2002: 341), Lam Dong (13 km SW Bao Loc) (Cassola and Werner, 1995: 45).**New records.** CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, N14° 28' 26.4" E108° 32' 24", 900m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8-12.v.2016, 1 male, 1 female (ABIC), Gia Lai, Buon Luoi, , leg. A. Gorochoy, 1.iv-5.v.1995, 2 males, 1 female (ZISP, MPU), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordon, 11-15.vi.2015, 1 male, 1 female (MZUF); SOUTHEAST: Dong Nai, Ma Da, leg. S. Kruscop, 3.v.2002, 1 female (MPU).**Distribution.** Vietnam (Dong Nai, Gia Lai, Lam Dong).**Remarks.** New provincial record for Dong Nai.**150. *Naviauxella snowiana*** Cassola, 2002 (Fig. 150, 180, 341)*Naviauxella snowiana*: Cassola 2002a: 342-344; Fedorenko and Matalin 2011: 126-28.**Published data.** SOUTHEAST: Dong Nai (Cat Tien National Park) (Cassola 2002: 342; Fedorenko and Matalin 2011: 126-28).**New records.** NORTH CENTRAL COAST: Thua Thien-Hue, A Luoi distr., Sao La Nature Reserve, 650m, N16° 04' 37" E107° 29' 16", E. Orbach, 20-22.v.2017, 1 male (EOIC); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, N14° 28' 26.4" E108° 32' 24", 900m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8-12.v.2016, 3 males, 1 female (ABIC), 1 male (JWGC), Gia Lai, Kon Chu Rang Nature Reserve, surroundings HQ, N14° 28' 26.4" E108° 32' 24", 900m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 9-12.v.2016, 1 male, 3 females (MZUF), 1 female (JWGC); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 13-24.iv.2009, 31 males, 12 females (MPU, SIEE).**Distribution.** Vietnam (Binh Phuoc, Dong Nai, Gia Lai, Thua Thien-Hue).**Remarks.** New provincial records for Binh Phuoc, Gia Lai and Thua Thien-Hue.**B3.7. Genus *Probstia*** Cassola, 2002**151. *Probstia triumphalis*** (Horn, 1902) (Fig. 151, 342)*Euryoda triumphalis*: Horn 1902: 75.*Prothyma triumphalis*: Horn 1913: 363; 1924: 11.*Prothyma (Symplecthyra) triumphalis*: Wiesner 1992: 59.*Probstia triumphalis*: Cassola 2002b: 91.**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1902: 66; 1913: 363; 1924: 11).**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, 6 km SW Thanh So' n, N21° 10' 49.8" E106° 43' 25.62", 200m, leg. R. Gerstmeier, 18.v.2015, 1 male (JWGC), l. c., leg. A. Skale, 18-21.v.2015, 1 male (ASGC), Bac Giang, Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21° 9' 57.9" E106° 49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 1 female (JWGC), Lao Cai, Fan-Si-Pan Mountain, 2300m, leg. V. Sinjaev, A. Siminov, 20.v.1994, 1 female (PURC); Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 1 male (EOIC); Phu Tho, ~90 km N of Hanoi, Xuan Son National Park, N21° 07' 52" E104° 56' 07", 400-470m, 6-15.vi.2014, leg. D. Fedorenko, 1 male (SIEE); NORTHWEST: Hoa Binh, Yen Thuy distr., Lac Thinh, Cuc Phuong National Park, N20° 23' E105° 38', 300m, leg. S. Belokobylskij, 1-2.v.2002, 1 female (ZISP); RED RIVER DELTA: Ninh Binh, Cuc Phuong National Park, N20° 21' E105° 36', 200m, leg. S. Belokobylskij, 7-9.v.2002, 1 male (ZISP), Vinh Phuc, Tam Dao, 1300m, J. M. Stusak leg., 1.vi.1986, 1 female (JWGC), Vinh Phuc, Tam Dao, N21° 16' 12" E105° 23' 24", 70 km NW Ha Noi, 900-1200 m, Pacholatko and Dembicky leg., 9-19.v.1996, 1 female (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21° 27' E105° 38', 700-1000m, leg. A. Skale, 2-5.v.2013, 1 specimen (ASGC).**Distribution.** Vietnam (Bac Giang, Hoa Binh, Lang Son, Lao Cai, Ninh Binh, Phu Tho, Vinh Phuc), China (Guangdong, Macao).**Remarks.** New provincial records for Bac Giang, Hoa Binh, Lao Cai, Ninh Binh, Phu Tho and Vinh Phuc.

**B3.8. Genus *Cylindera* Westwood, 1831****Key to the subgenera of genus *Cylindera* Westwood, 1831**

1. Head and pronotum uniformly shiny metallic cupreous; elytra dull black without maculation  
....**B3.8.2. *Verticina* Rivalier, 1961**, (represented in Vietnam by one species only) **153. *C. (V.) antoni* Cassola and Probst, 1996)**
- Head and pronotum dull; elytra with maculation ..... **2**
- 2(1). Elytra with complete humeral lunule ..... **B3.8.4. *Eugrapha* Rivalier, 1950**
- Elytra lacking humeral lunule ..... **3**
- 3(2). Labrum long and testaceous or elytra plain, with dull maculae, ground dark .....  
..... **B3.8.1. *Cylindera* s.str.**, (represented in Vietnam by one species only) **152. *C. (C.) delavayi* (Fairmaire, 1886)**
- Labrum short, dark or elytra with raised sculptures ..... **B3.8.3. *Ifasina* Jeannel, 1946**

**B3.8.1. Subgenus *Cylindera* s. str.**

**152. *Cylindera (Cylindera) delavayi* (Fairmaire, 1886)** (Fig. 152, 181, 343)

*Cicindela funebris* Delavayi: Horn 1913: 364.

*Cicindela Delavayi*: Horn 1924: 13.

*Cicindela funebris*: Horn 1929: 20.

*Cylindera (Cylindera) delavayi*: Cassola and Probst 1996: 15.

**Published data.** NORTHEAST: Lang Son (Mont Mau Son) (Horn 1913: 364), Lao Cai (Sa Pa) (Horn 1924: 13; 1929: 20; Cassola and Probst 1996: 15).

**New records.** NORTHEAST: Cao Bang, Nguyen Binh, Pia Oac Nature Reserve, 1400m, leg. E. Orbach, 14-16.vi.2012, 3 males, 4 females (MZUF), 12 males, 10 females (EOIC), Cao Bang, Mt. Pia Oac, 1600-2000m, L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 3 males, 6 females (MZUF), Cao Bang, vic. Tinh Tuc, Son Dong, Nui Pia Oac Nature Reserve, N22° 37' 55" E105° 52' 98", 850-1300m, leg. A. Skale, 9-15.v.2014, 18 specimens (ASGC), leg. A. Weigel, 5 specimens (NMEG), leg. A. Weigel, 13.v.2015, 2 females (NMEG), Lao Cai, Sa Pa, M. Kalabza and Z. Kostal leg., 12-17.v.1990, 1 female (JWGC), Lao Cai, Fan-Si-Pan Mountain, 2200m, leg. V. Sinjaev, 20.v.1993, 2 males, 3 females (MPU), Phu Tho, Xuan Son National Park, 500m, at light, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 18-20.vi.2012, 2 females (MZUF); RED RIVER DELTA: Vinh Phuc, Tam Dao, 1200m, leg. V. Sinjaev, 17.iii.1993, 1 male (MPU); CENTRAL HIGHLANDS: Gia Lai, surr. Kon Chu Rang Nature Reserve, along road to Kon Plong, N14° 40' 9.72" E108° 15' 31.02", 660m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 4-7.v.2016, 6 males, 7 females (MZUF), Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, N14° 28' 26.4" E108° 32' 24", 900m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 8-12.v.2016, 1 male, 2 females (ABIC), Gia Lai, Kon Chu Rang Nature Reserve, surroundings HQ, N14° 28' 27" E108° 32' 24.06", 900m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 9-12.v.2016, 3 males, 5 females (MZUF), Gia Lai, Kon Chu Rang Nature Reserve, 15 km N of ranger HQ, N14° 31' 12" E108° 28' 12", 1100m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 9-11.v.2016, 1 female (ABIC), Gia Lai, Kon Chu Rang Nature Reserve, about 8 km from HQ, N14° 30' 15.36" E108° 30' 6.54", 1100m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 9-12.v.2016, 2 males, 4 females (MZUF), Gia Lai, Kon Chu Rang Nature Reserve, 8 km N of ranger HQ, N14° 30' 14.4" E108° 30' 7.2", 1100m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 12.v.2016, 5 males, 18 females (ABIC), Kon Tum, surroundings of Kon Plong, N14° 40' 19.2" E108° 15' 50.4", 1250m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 4-7.v.2016, 1 male, 2 females (ABIC), Kon Tum, ca. 30 km from Kon Plong, N14° 40' 19.2" E108° 15' 49.74", 1250m, leg. L. Bartolozzi, S. Bambi, A. Bandinelli, V. Sbordon, 4-7.v.2016, 3 males (MZUF), Kon Tum, surroundings of Kon Plong, N14° 39' 57.6" E108° 15' 21.6", 1300m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 5.v.2016, 1 female (ABIC), Kon Tum, surroundings of Kon Plong, N14° 32' 6" E108° 27' 7.2", 1200m, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 6.v.2016, 9 males, 13 females (ABIC), Kon Tum, surroundings of Kon Plong, N14° 40' 19.2" E108° 15' 50.4", 1250m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi,

7.v.2016, 1 female (ABIC), Kon Tum, Ngoc Linh, 1700m, local collector, v.2016, 1 male (MZUF), Lam Dong, Bi Doup-Nui Ba National Park, near Long Lanh, N12° 10' 44" E108° 40' 44", leg. D. Fedorenko, 24.iv.2009, 23 males, 23 females (MPU, SIEE); NORTH CENTRAL COAST: Nghe An, Vinh, N18° 40' E105° 47', leg. V. Sinjaev, E. Afonin, 25.vii.1996, 2 males, 1 female (MPU).

**Distribution.** Vietnam (Cao Bang, Gia Lai, Kon Tum, Lam Dong, Lang Son, Lao Cai, Nghe An, Phu Tho, Vinh Phuc), China (Fujian, Guangdong, Guangxi, Guizhou, Hubei, Jiangxi, Sichuan, Xizang, Yunnan), Laos (Attapeu, Borikhamxay, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Xiengkhuang), Thailand (Chiang Mai, Loei), Myanmar (Kachin), India (Arunachal Pradesh, Western Bengal, Sikkim, Meghalaya, Nagaland, Manipur, Assam), Bhutan, Nepal.

**Remarks.** New provincial records for Cao Bang, Gia Lai, Kon Tum, Lam Dong, Nghe An, Phu Tho and Vinh Phuc.

### B3.8.2. Subgenus *Verticina* Rivalier, 1961

**153. *Cylindera (Verticina) antoni*** Cassola and Probst, 1996 (Fig. 153, 344)

*Cylindera (Verticina) antoni*: Cassola and Probst, 1996: 14-17.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Cassola and Probst 1996: 15).

**New records.** Lao Cai, Hoang Lien Son National Park, near Sa Pa, N22° 20' E103° 50', 1250-1300m, leg. A Napolov, 4.vi.1998, 1 male (ANLC).

**Distribution.** Vietnam (Lao Cai), Laos (Borikhamxay).

### B3.8.3. Subgenus *Ifasina* Jeannel, 1946

#### Key to the species of subgenus *Ifasina* Jeannel, 1946

1. Elytra black or dark brown, immaculate, with coarse and distinct microsculpturing ..... **2**  
 — Elytra maculate, microsculpturing not coarse or distinctive ..... **3**
- 2(1). Labrum completely black ..... **155. *C. (I.) cyclobregma*** Acciavatti and Pearson, 1989  
 — Labrum yellow, blackish marginally ..... **154. *C. (I.) foveolata*** (Schaum, 1863)
- 3(1). Labrum entirely bright metallic ..... **4**  
 — Labrum non-metallic (in some species entirely or partly pale, in some species dark brown or black with metallic tinge at the lateral sides and at base) ..... **9**
- 4(3). Elytra with three white spots: basal and apical portion of middle band, and basal portion of apical lunule; apical portion of middle band situated on long dull black stripe parallel to the suture; in some specimens middle band complete but with thin central section ..... **156. *C. (I.) viduata*** (Fabricius, 1801)  
 — Elytra with four white spots: apical portion of humeral lunule, basal and apical portion of middle band, and basal portion of apical lunule; without longitudinal dull black stripe ..... **5**
- 5(4). Shoulders and lateral margin of elytra with slight metallic blue-green iridescence; white elytral spots small; aedeagus slender and not expanded apically ..... **157. *C. (I.) fallaciosa*** (Horn, 1897)  
 — Shoulders with bright metallic green-golden-bronze iridescence; white elytral spots large; aedeagus expanded apically ..... **158. *C. (I.) somnuki*** Naviaux, 1991
- 6(3). Elytra with bright metallic T-shaped area in basal and sutural portion ..... **7**  
 — Elytra without bright metallic T-shaped area in basal and sutural portion ..... **8**

- 7(6). Body length  $\leq 9.0$  mm; labrum slightly transverse with pale central area; mandibles pale except for dark apices of teeth; bright metallic T-shaped area of elytra with distinct copperbronze reflection; aedeagus small with short spiniform lamella ..... **162. *C. (I.) lesnei*** (Babault, 1923)
- Body length  $> 10.0$  mm; labrum distinctly transverse and entirely dark brown; mandibles pale only in basal half; bright metallic T-shaped area of elytra with thin coppery lustre; aedeagus large with relatively long and even tapering to the rounded top lamella ..... **163. *C. (I.) ilonae*** Matalin, 2015
- 8(7). Labrum entirely or partly pale ..... **9**
- Labrum entirely dark brown or black, in some species with metallic tinge at the lateral sides and at base ..... **11**
- 9(8). Outline of elytra regular in both sexes ..... **10**
- Outline of elytra very irregular in the female ..... **165. *C. (I.) humillima*** (Gestro, 1893)
- 10(9). Labrum entirely pale except for light brown anterior margin; apical lunule narrow, in some specimens lacking apical portion; commashaped, middle band with thin indistinct central section contacting apical portion of marginal band ..... **166. *C. (I.) kaleea kaleea*** (Bates, 1866)
- Labrum pale with dark brown anterior, posterior and lateral margins as well as central carina, in some specimens entirely dark brown; apical lunule and middle band complete, marginal band absent ..... **164. *C. (I.) decempunctata*** (Dejean, 1825)
- 11(8). Middle band complete or divided on submarginal and discal spots ..... **12**
- Middle band reduced to a submarginal spot ..... **161. *C. (I.) decolorata*** (Horn, 1907)
- 12(11). White elytral pattern distinct, apical lunule reduced to a basal spot, lateral margin of elytra with bright metallic blue-green reflection ..... **160. *C. (I.) spinolae spinolae*** (Gestro, 1889)
- White elytral pattern indistinct, very thin, apical lunule tick-shaped, lateral margin of elytra without bright metallic reflection ..... **159. *C. (I.) pronotalis*** (Horn, 1922)

**154. *Cylindera (Ifasina) foveolata*** (Schaum, 1863) (Fig. 154, 345)

*Cicindela foveolata*: Horn 1902: 66; 1913: 365.

*Celindera (Ifasina) foveolata*: Fedorenko and Matalin 2011: 127, 128.

**Published data.** NORTHEAST: Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 365), Yen Bai (Horn 1913: 365); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 1 male, 1 female (JWGC); Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 1 male (ZISP); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Thanh So'n, 86m, N21°12'48.72" E106°45'50.76", leg. A. Skale, 18-21.v.2015, 2 males, 3 females (ASGC), Bac Kan, Ba Be National Park (entry), N22°25'07" E105°38'09", 180-220m, leg. A. Skale, 16-20.v.2014, 3 specimens (ASGC), leg. A. Weigel, 18.v.2014, 1 male, 1 female (NMEG), Ha Giang, Bankoa, 1-5.v.2006, 1 male (JWGC), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21°23'3" E105°42'44", 60-80m, leg. A. Skale, 12.v.2012, 1 specimen (ASGC); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 1 male, 10 females (JWGC); SOUTHEAST: Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male (ANLC).

**Distribution.** Vietnam (Bac Giang, Bac Kan, Binh Phuoc, Ha Giang, Lai Chau, Lam Dong, Dong Nai, Son La, Thai Nguyen, Tuyen Quang, Yen Bai), China (Yunnan), Laos (Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Saravane, Savannakhet, Vientiane, Xiengkhuang), Cambodia (Siem Reap, Pursat, Rattanakiri), Thailand (Chantaburi, Chiang Mai, Kamphaeng Phet, Loei, Mae Hong Son, Nakhon Ratchasima, Phitsanulok, Ranong, Sakhon Nakhon, Ubon Ratchathani, Yasothon), Myanmar (Kachin, Sagaing, Shan), Bangladesh (Dinaipur, Dacca, Chit-tagong), India (Madhya Pradesh, Uttar Pradesh, Karnataka, Kerala, Tamil Nadu, Western Bengal,



Bihar, Meghalaya, Sikkim), Nepal, Indonesia (?Sumatra, Sulawesi, Jawa), Philippines (Luzon).

**Remarks.** New provincial records for Bac Giang, Bac Kan, Binh Phuoc, Ha Giang, Lai Chau, Lam Dong, Son La and Thai Nguyen.

**155. *Cylindera (Ifasina) cyclobregma*** Acciavatti and Pearson, 1989 (Fig. 155, 346)

**New records.** NORTHEAST: Lao Cai, Van Ban National Park, 1000m, leg. E. Orbach, 23/26.v.2011, 1 male (EOIC); CENTRAL HIGHLANDS: Lam Dong, Lang Bian, leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC).

**Distribution.** Vietnam (Lam Dong, Lao Cai), Laos (Borikhamxay, Champasack, Houaphanh, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane), Myanmar, India (Arunachal Pradesh, Assam, Western Bengal, Sikkim).

**Remarks.** New state record for Vietnam and new provincial records for Lam Dong and Lao Cai.

**156. *Cylindera (Ifasina) viduata*** (Fabricius, 1801) (Fig. 156, 347)

*Cicindela chlorochila*: Horn 1902: 66.

*Cylindera (Ifasina) viduata*: Fedorenko and Matalin 2011: 127, 128; Matalin 2015b: 623.

**Published data.** NORTHEAST: Tuyen Quang (Chiem Hoa) (Horn 1902: 66); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 127, 128).

**New records.** NORTHWEST: Hoa Binh, Lac Thuy, leg. A. de Cauman, 1 male (ZISP), Hoa Binh, Pa Co Hang Kia Nature Reserve, 900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, at light, 9-12.vi.2013, 1 female (MZUF), Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 2 males, 1 female (JWGC), Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 1 female (ZISP); NORTHEAST: Ha Giang, Bankoa, 1-5.v.2006, 1 female (JWGC), Thai Nguyen, vic. Ngoc Thanh, Me Linh (IEBR station), N21° 23' 3" E105° 42' 44", 60-80m, leg. A. Skale, 12.v.2012, 1 specimen (ASGC), leg. A. Weigel, 1 male (NMEG), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 1 male (MZUF), Quang Binh, Minh Hoa distr., Yen Hop, leg. A. Deviatkin, 12-13.iv.1999, 1 male (SIEE); CENTRAL HIGHLANDS: Gia Lai, Kon Chu Rang Nature Reserve, 15 km N of ranger HQ, N14° 31' 12" E108° 28' 12", 1100 m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 9-11.v.2016, 2 males, 2 females (ABIC), Kon Tum, Kon Plong, N14° 37' 22.8" E108° 17' 38.4", 1100m, light trap, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-6.v.2016, 1 female (ABIC), Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 3 males, 2 females (JWGC), Lam Dong, Cat Tien Distr., Nam Cat Tien National Park, Headquarter aerea, 120m, at light, leg. L. Bartolozzi, G. Chelazzi, S. Bambi, F. Fabiano, E. Orbach, V. Sbordoni, 11-15.vi.2015, 4 males, 3 females (MZUF); SOUTHEAST: Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E108° 12' 21", 350-540m, leg. D. Fedorenko, 12-24.iv.2009, 6 males, 8 females (MPU, SIEE), Dong Nai, Ma Da, leg. S. Kruscop, 3.v.2002, 2 females (MPU), Ninh Thuan, Phuoc Binh National Park, N12° 04' E108° 45', leg. J. Constant and J. Bressel, 26.vii.2014, 1 male (IRSNB).

**Distribution.** Vietnam (Binh Phuoc, Dong Nai, Gia Lai, Ha Giang, Hoa Binh, Kon Tum, Lai Chau, Lam Dong, Ninh Thuan, Quang Binh, Son La, Thai Nguyen, Tuyen Quang), China (Beijing, Fujian, Guangdong, Hainan, Hong Kong, Shanghai, Yunnan, Zhejiang), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Savannakhet, Sekong, Vientiane, Xayabury, Xiengkhuang), Cambodia (Koh Kong, Kampong Speu, Pursat, Rattanakiri, Siem Reap), Thailand (Buri Ram, Chantaburi, Chiang Mai, Chiang Rai, Kamphaeng Phet, Khon Kaen, Loei, Mae Hong Son, Mukdahan, Nakhon Ratchasima, Nakhon Si Thammarat, Nan, Phitsanulok, Ranong, Ratchaburi, Rayong, Surat Thani, Tak), Myanmar (Kachin, Shan), Bangladesh (Chittagong), India (Uttar Pradesh, Western Bengal, Meghalaya, Assam, Sikkim), Nepal, Malaysia (Malacca, Borneo), Indonesia (Sumbawa, Sulawesi, Jawa, Bali, Sumatra), Philippines (Palawan, Leyte, Tawitawi, Mindanao), Papua New Guinea (Western Province).

**Remarks.** New provincial records for Binh Phuoc, Gia Lai, Ha Giang, Hoa Binh, Kon Tum, Lai Chau, Lam Dong, Ninh Thuan, Quang Binh, Son La and Thai Nguyen.

**157. *Cylindera (Ifasina) fallaciosa*** (Horn, 1897) (Fig. 157, 348)

*Cylindera (Ifasina) fallaciosa*: Wiesner 1992: 189.

**Published data.** Vietnam (Wiesner 1992: 189).

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, 6 km SW Thanh So' n, N21° 10' 49.8" E106° 43' 25.62", 200m, leg. R. Gerstmeier, 18.v.2015, 1 female (JWGC), l. c., leg. A. Skale, 18-21.v.2015, 1 female (ASGC); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 1 female (JWGC).

**Distribution.** Vietnam (Bac Giang, Lam Dong), China (Guangdong, Yunnan), Laos (Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Vientiane, Xiengkhuang), Thailand (Mae Hong Son, Phitsanulok, Tak), Myanmar (Kachin), Bangladesh, India (Meghalaya, West Bengal).

**Remarks.** New provincial records for Bac Giang and Lam Dong.

**158. *Cylindera (Ifasina) somnuki*** Naviaux, 1991 (Fig. 158, 349)

*Cylindera (Ifasina) somnuki*: Matalin 2013: 121; 2015b: 623.

**Published data.** CENTRAL HIGHLANDS: Lam Dong (Bao Loc) (Matalin 2013: 121); SOUTHEAST: Binh Phuoc (Bu Gia Map, Song Ben) (Matalin 2013: 121).

**New records.** CENTRAL HIGHLANDS: Gia Lai, ~40 km NEE of Pleiku, Kon Ka Kinh National Park, N14° 12' 11" E108° 18' 54", 890m, leg. D. Fedorenko, 9-22.v.2016, 2 males (MPU, SIEE).

**Distribution.** Vietnam (Binh Phuoc, Lam Dong), Laos (Borikhamxay, Vientiane), Thailand (Chiang Mai, Chiang Rai, Kanchanaburi, Mae Hong Son, Phitsanulok).

**Remarks.** New provincial record for Gia Lai.

**159. *Cylindera (Ifasina) pronotalis*** (Horn, 1922) (Fig. 159, 350)

*Cicindela pronotalis*: Horn 1924: 14.

**Published data.** NORTHWEST: Hoa Binh (Horn 1924: 14).

**Distribution.** Vietnam (Hoa Binh), China (Hainan), Laos (Vientiane), Thailand.

**160. *Cylindera (Ifasina) spinolae spinolae*** (Gestro, 1889) (Fig. 160, 351)

*Cicindela Spinolai* var. *Demangei*: Horn 1913: 364.

*Cicindela Spinolai*: Horn 1924: 14.

*Cylindera (Ifasina) spinolae spinolae*: Matalin 2015b: 623.

**Published data.** NORTHEAST: Lao Cai (Horn 1913: 364; 1924: 14).

**New records.** NORTHWEST: Lai Chau, A Pa Chai, via Li Jingke, 16-25.iv.2007, 1 male, 2 females (JWGC); Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 2 males (ZISP); CENTRAL HIGHLANDS: Lam Dong, Bao Loc, leg. Dembicky and Pacholatko, v./vi.1994, 1 male, 1 female (JWGC), Lam Dong, 35 km NW of Bao Loc, near Loc Bao, N11° 50' 12" E107° 38' 25", 650m, at light, leg. D. Fedorenko, 17-22. iv.2012, 2 females (SIEE); SOUTHEAST: Binh Phuoc, 160 km NNE of Ho Chi Minh, Bu Gia Map National Park, leg. A. Napolov, 19-22.v.1995, 1 male, 1 female (ANLC), Binh Phuoc, Bu Gia Map National Park, N12° 11' 37" E107° 12' 21", 350-540m, leg. D. Fedorenko, 13-14.iv.2009, 4 females, 26.iv-4.v.2013, 1 female (MPU, SIEE).

**Distribution.** Vietnam (Binh Phuoc, Lai Chau, Lam Dong, Lao Cai, Son La), China (Yunnan), Laos (Attapeu, Bokeo, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Savannakhet, Vientiane, Xiengkhuang), Cambodia (Koh Kong), Thailand (Chantaburi, Chiang Mai, Chiang Rai, Kanchanaburi, Lampang, Loei, Mae Hong Son, Nakhon Si Thammarat, Phitsanulok, Ranong, Trang, Ubon Ratchathani), Myanmar (Kachin, Sagaing, Shan), Bangladesh, India (Meghalaya, Arunachal Pradesh, Assam, Western Bengal, Orissa, Bihar, Sikkim), Nepal.

**Remarks.** New provincial records for Binh Phuoc, Lam Dong, Lai Chau and Son La.

**161. *Cylindera (Ifasina) decolorata*** (Horn, 1907) (Fig. 161, 352)

**New records.** NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, 6 km SW Thanh So' n, N21° 10' 49.8" E106° 43' 25.62", 200m, leg. R. Gerstmeier, 18.v.2015, 2 females (JWGC), l. c. leg. A. Skale, 18-21.v.2015, 1 female (ASGC).

**Distribution.** Vietnam (Bac Giang), China (Fujian, Guangdong, Guizhou, Sichuan, Yunnan).

**Remarks.** New state record for Vietnam and new provincial record for Bac Giang.

**162. *Cylindera (Ifasina) lesnei*** (Babault, 1923) (Fig. 162, 353)*Cicindela psilica Lesnei*: Horn 1924: 14.*Cylindera (Ifasina) lesnei*: Matalin 2015a: 409.**Published data.** NORTHEAST: Tuyen Quang (Na Hang) (Matalin 2015a: 409).**Distribution.** Vietnam (Tuyen Quang), China (Guangdong).**163. *Cylindera (Ifasina) ilonae*** Matalin, 2015 (Fig. 163, 354)*Cylindera (Ifasina) ilonae*: Matalin 2015a: 409-411.**Published data.** NORTHEAST: Tuyen Quang (Na Hang) (Matalin 2015a: 409).**Distribution.** Vietnam (Tuyen Quang).**164. *Cylindera (Ifasina) decempunctata*** (Dejean, 1825) (Fig. 164, 355)*Cicindela decempunctata*: Horn 1924: 14.**Published data.** Tonkin (Horn 1924: 14).**New records.** NORTHEAST: Cao Bang, Nguen Binh distr., Quang Rhanh, leg. N.L. Orlov, v.1998, 2 females (ZISP), Phu Tho, ~90 km N of Hanoi, Xuan Son National Park, N21°07'58" 104°55'45", 300m, 13.vi.2014, leg. D. Fedorenko, 4 males, 3 males (MPU, SIEE); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 2 males, 1 female (JWGC).**Distribution.** Vietnam (Cao Bang, Lam Dong, Phu Tho), Laos (Houaphanh, Oudomxay, Vientiane), Cambodia, Thailand (Ubon Ratchathani), Myanmar, Bangladesh (Dacca), India (Uttar Pradesh, Punjab, Harryana, Bihar, Western Bengal, Assam, Sikkim), Nepal, Pakistan (NWFP, Punjab, Northern Territories).**Remarks.** New provincial records for Cao Bang, Lam Dong and Phu Tho.**165. *Cylindera (Ifasina) humillima*** (Gestro, 1893) (Fig. 165, 356)*Cylindera (Ifasina) cf. decempunctata*: Fedorenko and Matalin 2011: 126-128.**Published data.** SOUTHEAST: Dong Nai (Nam Cat Tien) (Fedorenko and Matalin 2011: 126-128, as *Cylindera (Ifasina) cf. decempunctata*).**Distribution.** Vietnam (Dong Nai), Myanmar.**Remarks.** New state record for Vietnam and new provincial record for Dong Nai.**166. *Cylindera (Ifasina) kaleea kaleea*** (Bates, 1866) (Fig. 166, 357)*Cicindela kaleea*: Horn 1902: 66; 1913: 365; 1914: 140; 1924: 17; 1929: 20.**Published data.** NORTHWEST: Hoa Binh (Horn 1924: 17); NORTHEAST: Cao Bang (Bao Lac) (Horn 1914: 140; 1924: 17), Quang Ninh (Tien Yen) (Horn 1929: 20), Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 365; 1914: 140; 1924: 17).**New records.** NORTHWEST: Hoa Binh, Yen Thuy distr., near Lac Thinh, Cuc Phuong National Park, N20°23' E105°34', 300m, leg. S. Belokobylskij, 1-2.v.2002, 2 males (ZISP), leg. F. Creutzburg, 22-25.v.2015, 2 specimens (NMEG), Hoa Binh, Pa Co Hang Kia Nature Reserve, 700m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, at light, 5-7.vi.2013, 3 females (MZUF), Hoa Binh, Pa Co Hang Kia Nature Reserve, 900m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 2 females (MZUF), Hoa Binh, Mai Chau Dist., Pa Co Hang Kia Nature Reserve, N22°74' 12" E104°93' 95", 970m, E. Orbach, 8-12.vi.2013, 2 males, 4 females (EOIC), Hoa Binh, Pa Co Hang Kia Nature Reserve, 900-1200m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 9-12.vi.2013, 1 male, 2 females (MZUF), Son La, near Son La, leg. A. Gorochoy, 5.v.1986, 1 female (ZISP); NORTHEAST: Bac Giang, Tay Yen Tu Nature Reserve, Thanh So' n, 86m, N21°12' 48.72" E106°45' 50.76", leg. A. Skale, 18-21.v.2015, 3 males (ASGC), Bac Kan, Ba Be National Park (entry), N22°25' 07" E105°38' 09", 180-220m, leg. A. Skale, 16-20.v.2014, 12 specimens (ASGC), leg. A. Weigel, 18.v.2014, 20 specimens (NMEG), Tay Yen Tu Nature Reserve, Van Danh (near Dong Ri), N21°9' 57.9" E106°49' 33.42", 415m, leg. R. Gerstmeier, 20.v.2015, 3 females (JWGC), Cao Bang, Mt. Pia Oac, 1600-2000m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 14-16.vi.2012, 2 males, 2 females (MZUF), Cao Bang, vic. Tinh Tuc, Son Dong, Nui Pia Oac Nature Reserve, N22°37' 55" E105°52' 98", 850-1300m, leg. A. Skale, 9-15.v.2014, 12 specimens (ASGC), 2 males, 1 female (EOIC), Phu Tho, Tan Son, Xuan Son National Park, 400m, leg. E. Orbach, 18-20.vi.2012, 3 males, 1 female (EOIC), Thai Nguyen, vic. Ngoc

Thanh, Me Linh (IEBR station), N21°23'3" E105°42'44", 60-80m, leg. A. Skale, 12.v.2012, 5 specimens (ASGC), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 2-9.vi.1996, 1 female (MPU), Tuyen Quang, Na Hang Nature Reserve, 150m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 5-7.vi.2013, 9 males, 8 females (MZUF), Tuyen Quang, Na Hang Dist., Na Hang Nature Reserve, N22°35'20" E105°42'24", 215m, E. Orbach, 5-7.vi.2013, 2 males, 3 females (EOIC); RED RIVER DELTA: Ha Noi City, Ba Vi National Park, 800m, leg. L. Bartolozzi, S. Bambi, F. Fabiano, E. Orbach, 21-24.vi.2012, 1 male, 1 female (MZUF), Ninh Binh, Cuc Phuong National Park, c/o Ninh Binh, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 3-4.vi.2014, 2 males (ABIC), Ninh Binh, Cuc Phuong National Park, N20°17'34.32" E105°40'3.12", 270m, leg. R. Gerstmeier, 22.v.2015, 1 female (JWGC), Ninh Binh, Cuc Phuong, rain-forest, leg. L. Medvedev, 25.iv.1975, 1 female (ZMMU); Vinh Phuc, Tam Dao, 80 km N of Ha Noi, 28.v.-2.vi.1985, 1 male (JWGC), Vinh Phuc, Tam Dao, leg. Kuban, 2-11.vi.1985, 1 male (JWGC), Vinh Phuc, Tam Dao, J. Strnad leg., 12-24.v.1989, 1 male (JWGC), Vinh Phuc, vic. Tam Dao Town, Tam Dao National Park, N21°27' E105°38', 700-1000m, leg. A. Skale, 2-5.v.2013, 3 specimens (ASGC), Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 5 males, 2 females (MZUF), Vinh Phuc, Tam Dao, N21°27'52" E105°38'46", 1200 m, hand collected, leg. M. Hauser and N. von Ellenrieder, 19-22.vi.2014, 1 male, 1 female (CSCA), Vinh Phuc, Me Linh Biodiversity Station, N21°23'18" E105°42'46", 70m, hand collected, leg. M. Hauser and N. von Ellenrieder, 23-25.vi.2014, 1 female (CSCA); NORTH CENTRAL COAST: Ha Tinh, Vu Quang Nature Reserve, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 1-2.v.2014, 1 female (ABIC); Quang Binh, Minh Hoa distr., 8 km SO of Yen Hop, leg. S. Kruskop, A. Deviatkin, 16-25.iv.1999, 6 males, 7 females (MPU, SIEE); Quang Binh, Minh Hoa distr., Phong Nha-Ke Bang National Park, leg. S. Kruskop, 7-12.iv.1999, 4 males, 2 females (MPU).

**Distribution.** Vietnam (Bac Giang, Bac Kan, Cao Bang, Ha Noi City, Ha Tinh, Hoa Binh, Ninh Binh, Phu Tho, Quang Binh, Quang Ninh, Son La, Thai Nguyen, Tuyen Quang, Vinh Phuc), China (Beijing, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hebei, Henan, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Shaanxi, Shandong, Shanghai, Sichuan, Xizang, Yunnan, Zhejiang), Taiwan, Laos (Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Luangprabang, Oudomxay, Phongsaly, Vientiane), Thailand (Lampang), Myanmar (Kachin), India (Assam, Arunachal Pradesh, Meghalaya, Sikkim).

**Remarks.** New provincial records for Bac Giang, Bac Kan, Ha Noi City, Ha Tinh, Ninh Binh, Phu Tho, Quang Binh, Son La, Thai Nguyen and Vinh Phuc.

#### B3.8.4. Subgenus *Eugrapha* Rivalier, 1950

##### Key to the species of subgenus *Eugrapha* Rivalier, 1950

1. Humeral lunule of elytral maculation short, not extended onto disk ..... **168. *C. (E.) minuta*** (Olivier, 1790)
- Humeral lunule extended onto disk ..... **2**
- 2(1). Mandibles much longer than the head ..... **169. *C. (E.) mutata*** (Fleutiaux, 1893)
- Mandibles barely longer than the head ..... **167. *C. (E.) elisae*** (Motschulsky, 1859)

##### **167. *Cylindera (Eugrapha) elisae elisae*** (Motschulsky, 1859) (Fig. 167, 358)

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao Dist., Me Linh Biodiversity Center, N21°38'74" E105°71'28", 70m, E. Orbach, 3.vi.2013, 1 male (EOIC), Vinh Phuc, Tam Dao Dist., lake near Me Linh Biodiversity Center, E. Orbach, 3.vi.2013, 1 female (EOIC).

**Distribution.** Vietnam (Vinh Phuc), North Korea, South Korea, Mongolia, China (Anhui, Beijing, Gansu, Guangdong, Guangxi, Hainan, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Nei Mongol, Qinghai, Shandong, Shanghai, Shanxi, Sichuan, Xinjiang, Xizang, Yunnan, Zhejiang), Taiwan.

**Remarks.** New state record for Vietnam and new provincial record for Vinh Phuc.

##### **168. *Cylindera (Eugrapha) minuta*** (Olivier, 1790) (Fig. 168, 359)

*Cicindela minuta*: Horn 1902: 66; 1929: 20.



*Cylindera (Eugrapha) minuta*: Fedorenko and Matalin 2011: 126, 128; Matalin 2015b: 623.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 20), Tuyen Quang (Chiem Hoa) (Horn 1902: 66); RED RIVER DELTA: Ha Noi City (Horn 1929: 20); SOUTHEAST: Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 126, 128).

**New records.** NORTH CENTRAL COAST: Quang Binh, North of Phong Nha-Ke Bang Nature Reserve, on route 15, leg. A. Bandinelli, L. Bartolozzi, S. Bambi, 1.vi.2015, 11 males, 7 females (ABIC); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 37 males, 16 females (JWGC), Lam Dong, Bidoup-Nui Ba National Park, N12° 26' E108° 30', light trap, leg. J. Constant and J. Bresseel, 21-25.vii.2014, 1 female (IRSNB); SOUTHEAST: Dong Nai, Cat Tien National Park, N11° 26' E107° 26', leg. J. Constant and J. Bressel, 6-16.vii.2012, 1 male (IRSNB), Dong Nai, Dong Nai Biosphere Reserve N11° 18' E107° 06', leg. J. Constant and J. Bresseel, 25.vi.-6.vii.2012, 2 males, 4 females (IRSNB), Ninh Thuan, Nui Chua National Park, N11° 42' E109° 09', light trap, leg. J. Constant and J. Bresseel, 3-9.vii.2014, 1 female (IRSNB), Ninh Thuan, Phuoc Binh National Park, N12° 04' E108° 45' E, leg. J. Constant and J. Bressel, 26.vii.2014, 1 male, 3 females (IRSNB).

**Distribution.** Vietnam (Dong Nai, Ha Noi City, Lam Dong, Lao Cai, Ninh Thuan, Quang Binh, Tuyen Quang), China (Guangxi, Yunnan), Laos (Attapeu, Borikhamxay, Champasack, Khammuane, Oudomxay, Phongsaly, Vientiane, Xayabury, Xiengkhuang), Cambodia (Siem Reap), Thailand (Chiang Mai, Chumphun, Kamphaeng Phet, Mae Hong Son, Mukdahan, Nakhon Phanom, Nakhon Si Thammarat, Nakhon Ratchasima, Phangnga, Phetchaburi, Prachuab Kiri Khan, Ratchaburi, Sa Kaeo, Trang, Ubon Ratchathani), Myanmar (Kaching, Sagaing), Bangladesh, India (Arunachal Pradesh, Meghalaya, Assam, Western Bengal, Bihar, Orissa, Uttar Pradesh, Himachal Pradesh, Haryana, Gujarat, Maharashtra, Karnataka, Andhra Pradesh, Kerala, Tamil Nadu, Sikkim), Nepal, Malaysia (Malacca, Borneo), Brunei, Indonesia (Sumatra, Jawa, Sumbawa), Philippines.

**Remarks.** New provincial records for Lam Dong, Ninh Thuan and Quang Binh.

#### 169. *Cylindera (Eugrapha) mutata* (Fleutiaux, 1893) (Fig. 169, 360)

*Cicindela mutata*: Horn 1924: 15.

*Cylindera (Eugrapha) mutata*: Matalin 2015b: 623.

**Published data.** Tonkin (Horn 1924: 15).

**New records.** NORTHEAST: Bac Kan, Ba Bè National Park (entry), N22° 25' 07" E105° 38' 09", 180-220m, leg. A. Skale, 16-20.v.2014, 1 specimen (ASGC); NORTH CENTRAL COAST: Thanh Hoa, SW from Bai Thuong, leg. O. Kabakov, 16.viii.1962, 1 male, 1 female (ZISP).

**Distribution.** Vietnam (Bac Kan, Thanh Hoa), China (Yunnan), Laos (Borikhamxay, Houaphanh, Khammuane, Luangprabang, Oudomxay, Phongsaly, Xayabury), Thailand (Chiang Mai, Loei, Mukdahan, Nakhon Phanom, Ubon Ratchathani), Myanmar (Shan).

**Remarks.** New provincial records for Bac Kan and Thanh Hoa.

### B3.9. Genus *Myriochila* Motschulsky, 1857, subgenus *Myriochila* s. str.

**Key to the species of genus *Myriochila* Motschulsky, 1857** (represented in Vietnam by the nominative subgenus only)

1. Elytral maculation lacking humeral lunule and marginal band ..... 170. *M. (M.) sinica* (Fleutiaux, 1889)
- Elytral maculation comprises humeral lunule and marginal band ..... 171. *M. (M.) specularis specularis* (Chaudoir, 1865)

#### 170. *Myriochila (Myriochila) sinica* (Fleutiaux, 1889) (Fig. 170, 361)

*Cicindela sinica*: Horn 1902: 66; 1913: 365.

*Myriochila (Myriochila) sinica*: Matalin 2015b: 626.

**Published data.** NORTHEAST: Tuyen Quang (Chiem Hoa) (Horn 1902: 66; 1913: 365); SOUTHEAST: Ho Chi Minh City (Horn 1913: 365 = Saigon).

**New records.** NORTHEAST: Ha Giang, Bankoa, 1-5.v.2006, 1 female (JWGC), Tuyen Quang, 160 km NNW of Ha Noi, NE of Na Hang, 150-200m, leg. A. Napolov, I. Roma, 5-10.vi.1996, 2 males (MPU); NORTHWEST: Son La, near Son La, leg. A. Gorochoy, 3-5.v.1986, 1 male, 1 female (ZISP); CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 4 males, 1 female (JWGC).

**Distribution.** Vietnam (Ha Giang, Ho Chi Minh City, Lam Dong, Son La, Tuyen Quang), China (Xizang, Hong Kong, Yunnan), Laos (Attapeu, Borikhamxay, Champasack, Houaphanh, Khammuane, Luangnamtha, Oudomxay, Phongsaly, Savannakhet, Vientiane), Cambodia (Pursat), Thailand (Kanchanaburi, Lampang, Loei, Mukdahan, Nahkon Nayok, Nahkon Ratchasima, Nahkon Sawan, Phitsanulok, Prachin Buri, Ubon Ratchaburi, Ratchathani, Yasothon), Myanmar (Kachin, Shan), Indonesia (Jawa, Sulawesi).

**Remarks.** New provincial records for Ha Giang, Lam Dong and Son La.

**171. *Myriochila (Myriochila) specularis specularis*** (Chaudoir, 1865) (Fig. 171, 362)

*Cicindela specularis*: Horn 1929: 20.

**Published data.** NORTHEAST: Lao Cai (Sa Pa) (Horn 1929: 20).

**New records.** RED RIVER DELTA: Vinh Phuc, Me Linh research station for biodiversity, 70m, leg. L. Bartolozzi, S. Bambi, F. Cianferoni, G. Mazza, E. Orbach, 3.vi.2013, 1 male, 1 female (MZUF), Vinh Phuc, Tam Dao Dist., lake near Me Linh Biodiversity Center, E. Orbach, 3.vi.2013, 2 males, 3 females (EOIC); NORTH CENTRAL COAST: Ha Tinh, Hong Son, Khe Loi, E105° 43' 04" N18° 34' 53", 1 specimen (JGGC).

**Distribution.** Vietnam (Ha Tinh, Lao Cai, Vinh Phuc), China (Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Heilongjiang, Henan, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Macao, Shangdong, Shanghai, Sichuan, Xinjiang, Yunnan, Zhejiang), Taiwan, Japan, Laos (Houaphanh), Cambodia, Thailand, Malaysia (Malacca).

**Remarks.** New provincial records for Ha Tinh and Vinh Phuc.

**B3.10. Genus *Abroscelis* Hope, 1838**

**Key to the species of genus *Abroscelis* Hope, 1838**

- |       |  |   |
|-------|--|---|
| 1.    | Pronotum roundish at posterior angle ...                             | <b>172. <i>A. anchoralis punctatissima</i></b> (Schaum, 1863) |
| —     | Posterior angle of pronotum pointed .....                            | <b>2</b>  |
| 2(1). | Elytra yellow, only the margin of the middle suture cupreous .....   | <b>173. <i>A. tenuipes tenuipes</i></b> (Dejean, 1826)        |
| —     | Maculae on elytra clearly recognizable, not confluent all over ..... | <b>174. <i>A. tenuipes araneipes</i></b> (Schaum, 1863)       |

**172. *Abroscelis anchoralis punctatissima*** (Schaum, 1863) (Fig. 172, 363)

*Cicindela anchoralis punctatissima*: Horn 1924: 22.

**Published data.** NORTH CENTRAL COAST: Thanh Hoa (Sam Son) (Horn 1924: 22).

**New records.** RED RIVER DELTA: Vinh Phuc, Tam Dao, M. Hradsky leg., 18-27.v.1990, 1 male (JWGC); NORTH CENTRAL COAST: Thanh Hoa, Sam Son, sea beach, leg. O. Kabakov, 2-3.v.1962, 2 males, 2 females (ZISP), 21.v.1962, 1 female (MPU).

**Distribution.** Vietnam (Thanh Hoa, Vinh Phuc), China (Fujian, Liaoning), Taiwan, North Korea, South Korea, Japan (Honshu, Kyushu).

**Remarks.** New provincial record for Vinh Phuc.

**173. *Abroscelis tenuipes tenuipes*** (Dejean, 1826) (Fig. 173, 364)

*Cicindela tenuipes*: Horn 1913: 366; 1924: 22.

**Published data.** NORTH CENTRAL COAST: Thanh Hoa (Sam Son) (Horn 1924: 22); SOUTH CENTRAL COAST: Binh Dinh (Quy Nhon) (Horn 1913: 366, 1924: 22), Da Nang (Horn 1913: 366; 1924: 22 = Tourane).

**New records.** NORTH CENTRAL COAST: Nge An, Cua Lo, sea beach, leg. O. Kabakov, 10.x.1963, 1 male (MPU), Nghe An, Vinh, N18° 40' E105° 47', leg. V. Sinjaev, E. Afonin, 25.vii.1996, 3 males, 1 female (MPU), Thanh Hoa, Sam Son, sea beach, leg. O. Kabakov, 2-3.v.1962, 2 males, 2 females (ZISP); SOUTH CENTRAL COAST: Khanh Hoa, Cam Ranh Bay, sea beach, R. Shaffer, 15.vii.1968, 1 male (JWGC); SOUTHEAST: Ba Ria-Vung Tau, 14.viii.1989, 1 female (JWGC), Ba Ria-Vung Tau, E Vung Tau, 7m, N10° 22' 30" E107° 7' 50", ungestörter Strand, leg. Görn, 8.viii.2014, 1 male, 1 female, (JWGC); Ba Ria-Vung Tau, Vung Tau, leg. V. Sinjaev, autumn 1992, 1 female (IORC), Ba Ria-Vung Tau, near Vung Tau, leg. A. Napolov, 1-2.vi.1995, 2 males, 2 females (MPU).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Binh Dinh, Da Nang City, Khanh Hoa, Nghe An, Thanh Hoa), Cambodia.

**Remarks.** New provincial records for Ba Ria-Vung Tau, Khanh Hoa and Nghe An.

**174. *Abroscelis tenuipes araneipes*** (Schaum, 1863) (Fig. 174, 365)

*Cicindela tenuipes araneipes*: Horn 1929: 21.

**Published data.** SOUTHEAST: Ba Ria-Vung Tau (Con Dao) (Horn 1929: 21).

**New records.** NORTH CENTRAL COAST: Nghe An, Vinh region, Nam Anh env., sandy beach, M. Pejcha leg., v-vii.2015, 1 male (PSGC); SOUTHEAST: Ba Ria-Vung Tau, Con Dao, J. Strnad leg., 28-31.v.1989, 1 male, 2 females (JWGC).

**Distribution.** Vietnam (Ba Ria-Vung Tau, Nghe An), Cambodia (Poulo Is.), Malaysia (Borneo), Philippines (Palawan).

**Remarks.** New provincial record for Nghe An.

**B3.11. Genus *Callytron*** Gistel, 1848

**Key to the species of genus *Callytron*** Gistel, 1848

1. Labrum yellow; marginal suture of elytra completely covered with a yellow band; ground color greenish ..... **175. *C. nivicinatum*** (Chevrolat, 1845)
- Margins of labrum blackish; yellow markings of elytra consisting of a slender marginal dot in the middle and a same one at the apex; ground color blackish ..... **176. *C. andersonii*** (Gestro, 1889)

**175. *Callytron nivicinatum*** (Chevrolat, 1845) (Fig. 175, 366)

*Cicindela nivicinata*: Horn 1914: 139; 1924: 22.

**Published data.** ? Huong By (Horn 1924: 22); SOUTHEAST: Ba Ria-Vung Tau (Horn 1914: 139, 1924: 22 = Cap Saint Cacques).

**Distribution.** Vietnam (Ba Ria-Vung Tau), China (Fujian, Guangdong, Hainan, Hong Kong, Jiangsu, Liaoning, Macao, Shanghai, Zhejiang), Cambodia, ?South Korea.

**176. *Callytron andersonii*** (Gestro, 1889) (Fig. 176, 367)

*Cicindela Andersoni*: Horn 1914: 139; 1924: 22.

*Callytron andersoni*: Fedorenko and Matalin 2011: 128.

**Published data.** SOUTHEAST: Dong Nai (Bien Hoa) (Horn 1914: 139; 1924: 22); Dong Nai (Nam Cat Tien National Park) (Fedorenko and Matalin 2011: 128).

**New records.** CENTRAL HIGHLANDS: Lam Dong, Nam Cat Tien. leg. Dembicky and Pacholatko, v./vi.1994, 4 males, 1 female (JWGC), Gia Lai, ~40 km NEE of Plieku, Kon Ka Kinh National Park, N14° 12' 11" E108° 18' 54", 890m, leg. D. Fedorenko, 9-22.v.2016, 1 male (SIEE).

**Distribution.** Vietnam (Dong Nai, Gia Lai, Lam Dong), China (Yunnan), Laos (Borikhamxay, Houaphanh, Khammuane, Luangnamtha, Vientiane, Xiengkhuang), Cambodia, Thailand (Chiang Mai, Chiang Rai, Kanchanaburi, Loei, Mae Hong Son), Myanmar (Yangon), Malaysia (Malacca).

**Remarks.** New provincial records for Gia Lai and Lam Dong.

**B3.12. *Enantiola* Rivalier, 1961**

**177. *Enantiola hewittii*** (Horn, 1908) (Fig. 177, 368)

*Cicindela hewitti*: Horn 1914: 139; 1924: 22.

**Published data.** SOUTHEAST: Ba Ria-Vung Tau (Horn 1914: 139, 1924: 22 = Cap Saint Cacques).

**New records.** SOUTHEAST: Ba Ria-Vung Tau, Long Hai, leg. Snizek, 25.iv.1989, 1 female (JWGC).

**Distribution.** Vietnam (Ba Ria-Vung Tau), Cambodia, Malaysia (Malacca, Borneo).

**Discussion**

With these recent collection records, the number of tiger beetle species known from Vietnam (Figures 189-195) rises to 177 species, 59 (33.3 %) of which are endemic, 88 (49.7 %) are also known from Laos, 76 (42.9 %) from China and 42 (23.7 %) from Cambodia. The number of tiger beetle species known from each region of Vietnam according to descending sort is as follows: Northeast 105 (59.3 %), Central Highlands 70 (39.5 %), Red River Delta 60 (33.9 %), Southeast 53 (29.9 %), North Central Coast 53 (29.9 %), Northwest 45 (25.4 %), Mekong Delta 5 (2.8 %), South Central Coast 4 (2.3 %). The first four of these regions have the greatest proportion of endemism with 24 (13.6 %), 19 (10.7 %), 17 (9.6 %) and 11 (6.2 %) endemic species of tiger beetles recorded from each of them. The North Central Coast region has a slightly higher proportion of endemic tiger beetles than in the Northwest region, namely nine (5.1 %) vs. seven (3.9 %). Finally, only a single endemic species (0.5 %) was recorded in the South Central Coast region, and no endemic species has been recorded from the Mekong Delta region. Among the genera, *Neocollyris* and *Therates* exhibit the highest proportion of endemics: 28 (15.8 %) and 16 (9.0 %), respectively. Within these genera, three subgenera of *Neocollyris*, namely *Isocollyris* 8 (4.5 %), *Pachycollyris* 7 (4.0 %), and *Leptocollyris* 5 (2.8 %) are the richest in endemic species.

According to the analysis of the similarity between faunas of tiger beetle of different Vietnamese regions, four clusters can be recognized (Fig. 196). The tiger beetle faunas of the South Central Coast and Mekong Delta regions form the first and the second clusters, respectively. The low species diversity of some regions may be an artifact of few data. In contrast, the separation of the two other clusters more likely represent reality as they reflect the changing Nature-climatic conditions. On the one hand, the faunas of tiger beetles of Central Highlands and Southeast regions are most similar. On the other hand, all northern regions are clustered together. At the same time, the fauna of tiger beetles of Northeast region is more similar to the fauna of Red River Delta region, but not to the fauna of Northwest region.

Finally, questionable and doubtful records of some species of tiger beetles from Vietnam need to be considered.

*Neocollyris (Isocollyris) septentrionalis* Naviaux, 1999 was recorded as endemic of Vietnam (Cassola 2004: 24). However, this species was described from China (Shaanxi) (Naviaux 1999) without any reference to an occurrence in Vietnam in the future (Naviaux 2004). No specimens from Vietnam are known.

*Neocollyris (Pachycollyris) aptera apicalis* (Chaudoir, 1864) recorded from Vietnam by Horn: NORTHEAST: Lao Cai (Sa Pa) (Horn 1924: 9), may be a misidentification of *Neocollyris (Pachycollyris) bipartita unicolor* (Horn, 1935). No specimens from Vietnam are known.

*Neocollyris (Pachycollyris) contracta* (Horn, 1905) recorded from Vietnam by Horn: NORTHEAST: Lao Cai (Horn 1924: 10), may be a misidentification of *Neocollyris (Pachycollyris) pseudocontracta* (Horn, 1937). No specimens from Vietnam are known.

*Therates dimidiatus wallacei* Thomson, 1857 recorded from Vietnam by Cassola and Probst: NORTHEAST: Lao Cai (Sa Pa) (Cassola and Probst 1996: 15) may be a mislabeling. No records of this species are known from Vietnam.

*Cylindera (Cylindera) pseudocylindriciformis* Horn, 1913 was recorded from Vietnam by Horn: NORTHEAST: Lao Cai (Sai Pa) (Horn 1929: 29). No records from Vietnam are known.

*Cylindera (Ifasina) viridilabris* (Chaudoir, 1852) was recorded from Vietnam by Horn: Tonkin (Horn 1924: 14). No records from Vietnam are known.

*Cylindera (Ifasina) psilica psilica* (Bates, 1866) was recorded with question mark by Wiesner (1992: 190). No specimens from Vietnam are known.



*Cylindera (Eugrapha) venosa* (Kollar, 1836) was recorded from Vietnam by Horn: NORTHEAST: Lao Cai (Horn 1914: 140; 1924: 4). No actual records from Vietnam are known.

*Myriochila (Myriochila) undulata* (Dejean, 1825) was recorded from Vietnam by Horn: SOUTHEAST: Ho Chi Minh City (Tien Sinh) (Horn 1924: 16). No from Vietnam are known.

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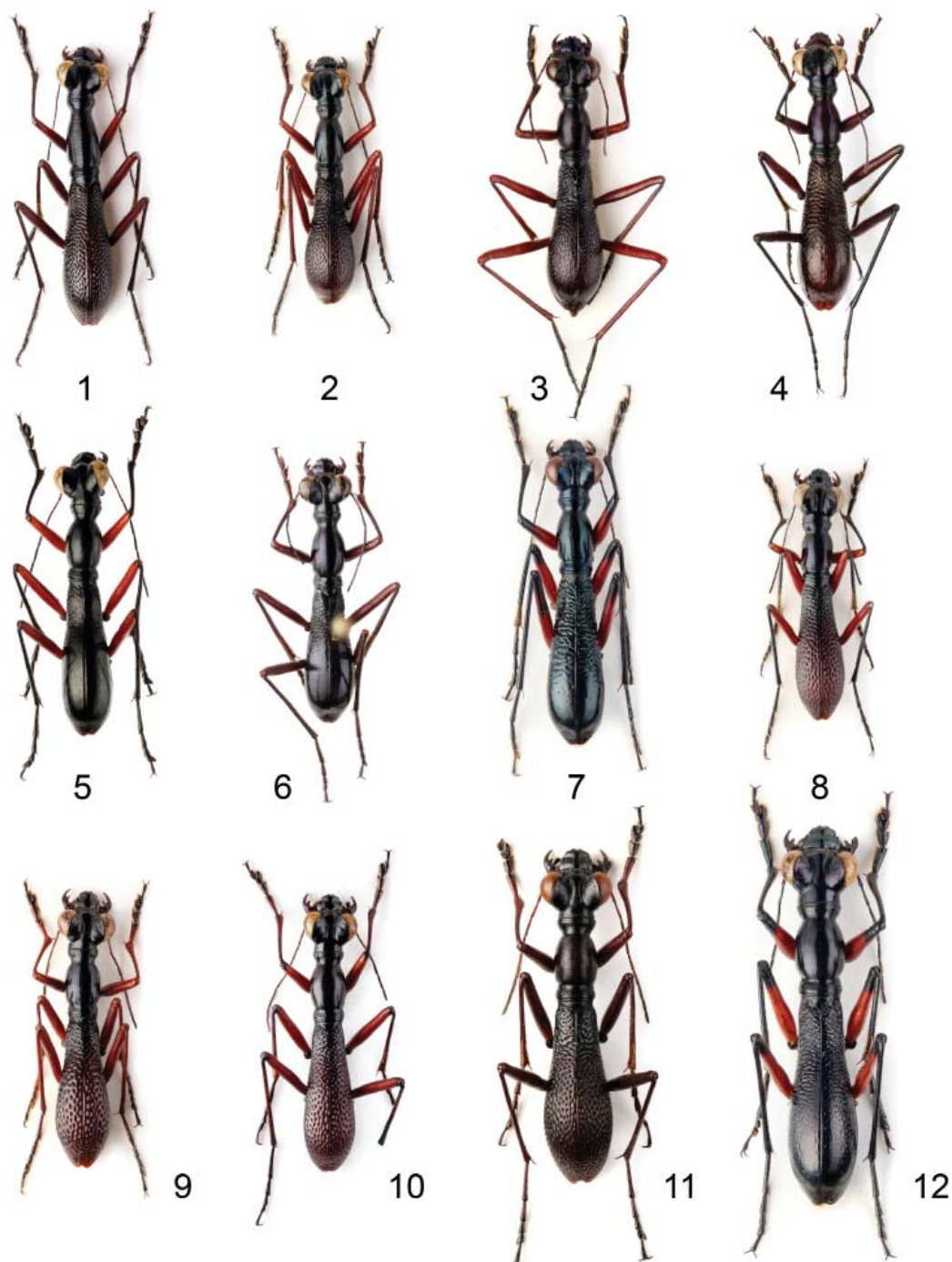
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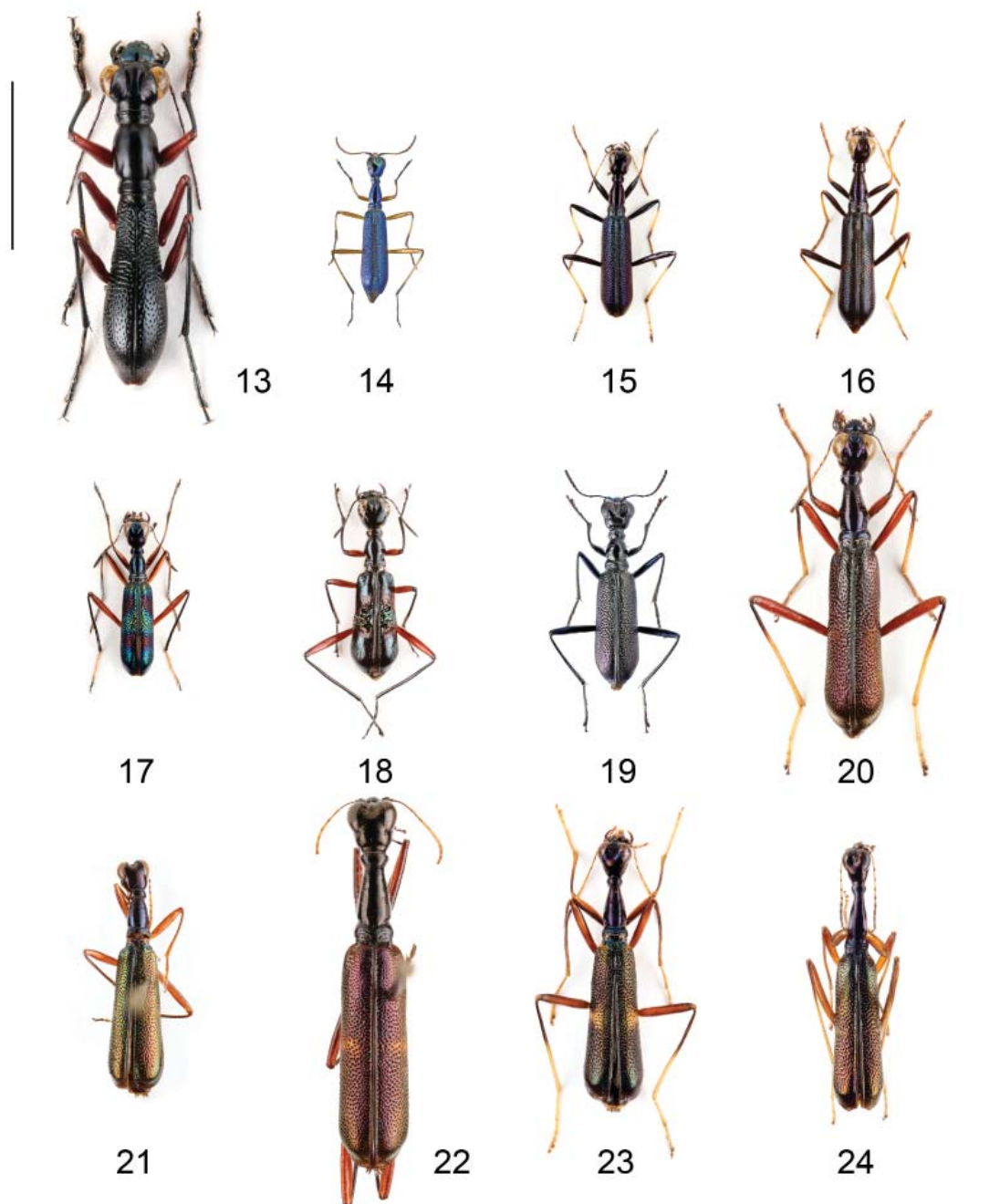
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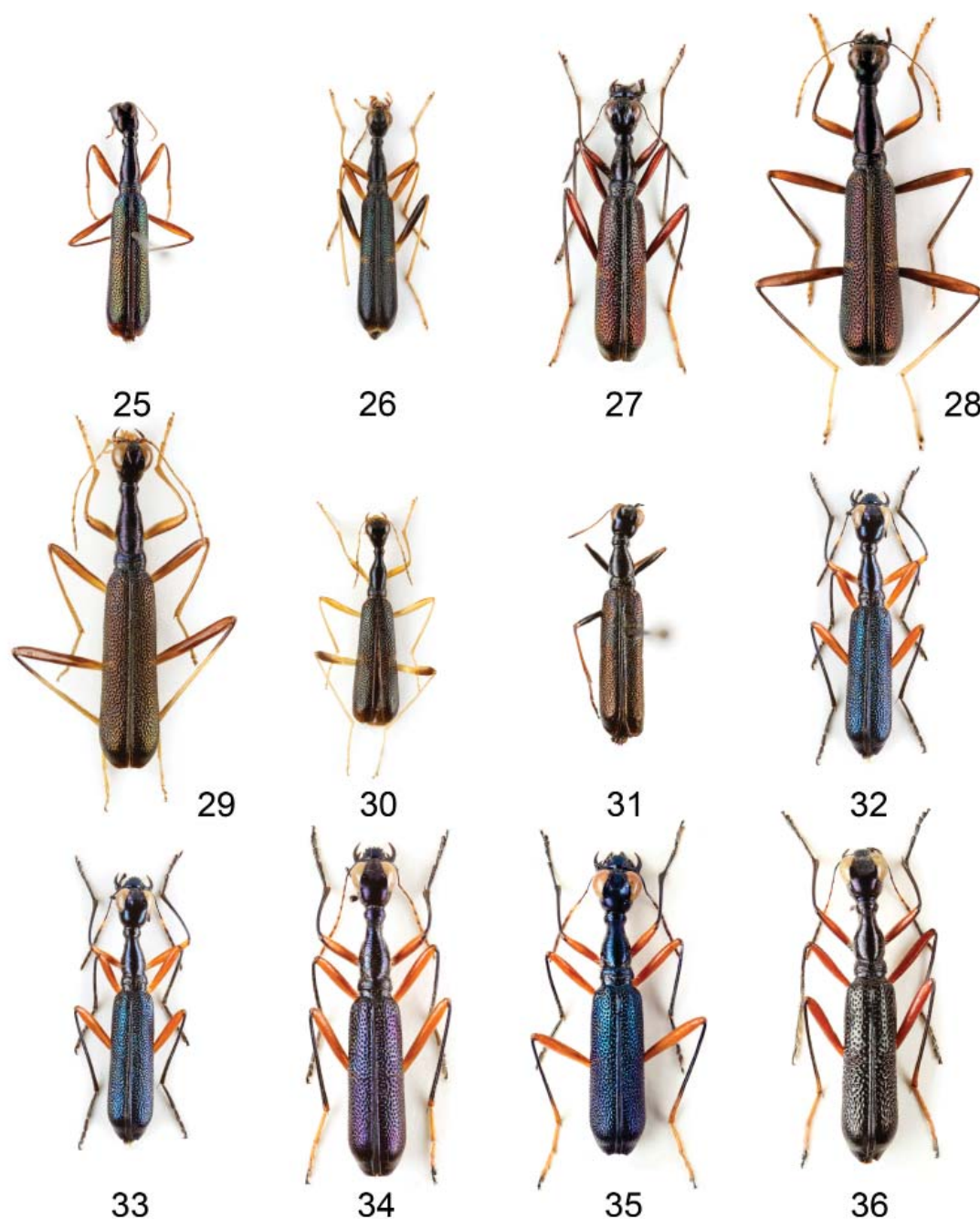




**Figures 1-12.** Habitus pictures. All scales = 10mm. **1)** *Tricondyla (Tricondyla) pulchripes* White, 1844, Laos, Champasak, male (JWGC). **2)** *Tricondyla (Tricondyla) stricticeps* Chaudoir, 1864, Laos, Champasak, male (JWGC). **3)** *Tricondyla (Tricondyla) ledouxii* Naviaux, 2002, Annam, Djiringa, holotype male (GLFC). **4)** *Tricondyla (Tricondyla) deuvei* Naviaux, 2002, China, Guizhou, male (JWGC). **5)** *Tricondyla (Tricondyla) distincta* Fleutiaux, 1893, Vietnam, Bao Loc, male (JWGC). **6)** *Tricondyla (Tricondyla) mourzinei* Naviaux, 2002, Vietnam, Dong Nai, holotype male (SHNAO). **7)** *Tricondyla (Tricondyla) macrodera abruptesculpta* Horn, 1925, China, Hainan, male (JWGC). **8)** *Tricondyla (Tricondyla) gestroi gestroi* Fleutiaux, 1893, Laos, Luangnamtha, male (JWGC). **9)** *Tricondyla (Tricondyla) gestroi scabra* Fleutiaux, 1920, Laos, Phongsaly, male (JWGC). **10)** *Tricondyla (Tricondyla) ovaligrossa* Horn, 1922, Laos, Luangnamtha, male (JWGC). **11)** *Tricondyla (Tricondyla) mellyi* Chaudoir, 1850, China, Yunnan, male (JWGC). **12)** *Tricondyla (Tricondyla) annulicornis* Schmidt-Goebel, 1846, Laos, Luangphrabang, male (JWGC).

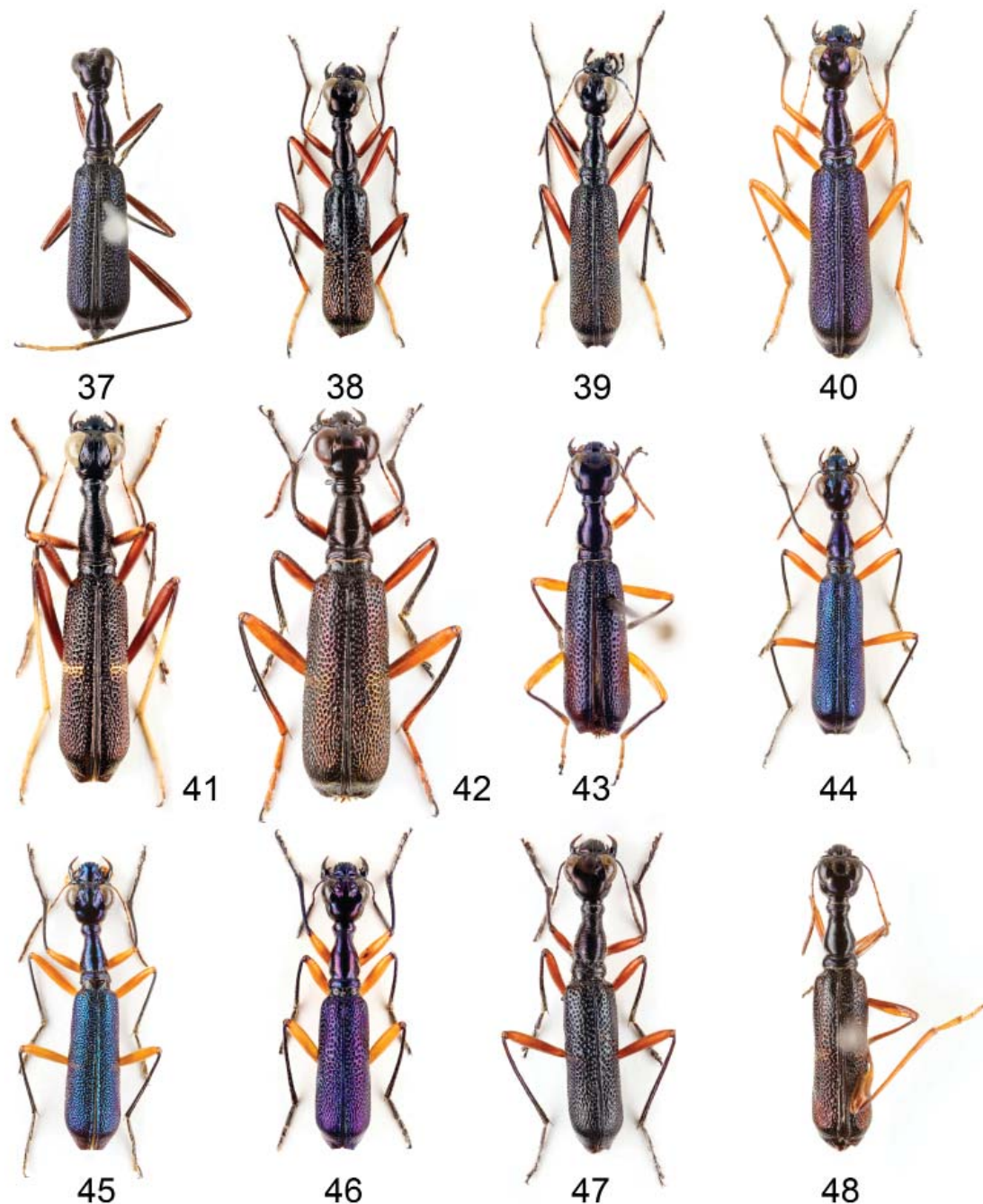


**Figures 13-24.** Habitus pictures. All scales = 10mm. **13)** *Tricondyla* (*Tricondyla*) *proxima* Fleutiaux, 1893, Laos, Champasak, male (JWGC). **14)** *Protocollyris festiva* Naviaux, 2008, Vietnam, Binh Phuoc, male (MPU, photo by Andrey Matalin). **15)** *Protocollyris grossepunctata* (Horn, 1935), Laos, Borikhamxay, male (JWGC). **16)** *Protocollyris annamensis* Naviaux, 1996, Vietnam, Gia Lai, holotype male (ZSMC). **17)** *Neocollyris* (*Brachycollyris*) *purpureomaculata borea* Naviaux, 1994, Laos, Phongsaly, male (JWGC). **18)** *Neocollyris* (*Brachycollyris*) *brevis* Naviaux, 1994, Vietnam, Vinh Phuc, holotype female (SHNAO). **19)** *Neocollyris* (*Brachycollyris*) *torosa* Naviaux, 2010, Vietnam, Lao Cai, female (MPU, photo by Andrey Matalin). **20)** *Neocollyris* (*Isocollyris*) *fruhstorferi* (Horn, 1902), Vietnam, Lao Cai, male (JWGC). **21)** *Neocollyris* (*Isocollyris*) *resplendens* (Horn, 1902), Tonkin, Montes Mauson, holotype female (SDEI). **22)** *Neocollyris* (*Isocollyris*) *grandivadosa* (Horn, 1935), Tonkin, Montes Mauson, holotype male (SDEI). **23)** *Neocollyris* (*Isocollyris*) *purpurascens* Naviaux, 1992, Vietnam, Vinh Phuc, paratype female (ZSMC). **24)** *Neocollyris* (*Isocollyris*) *paradoxa* Matalin and Naviaux, 2008, Vietnam, Hoa Binh, holotype male (ZISP).



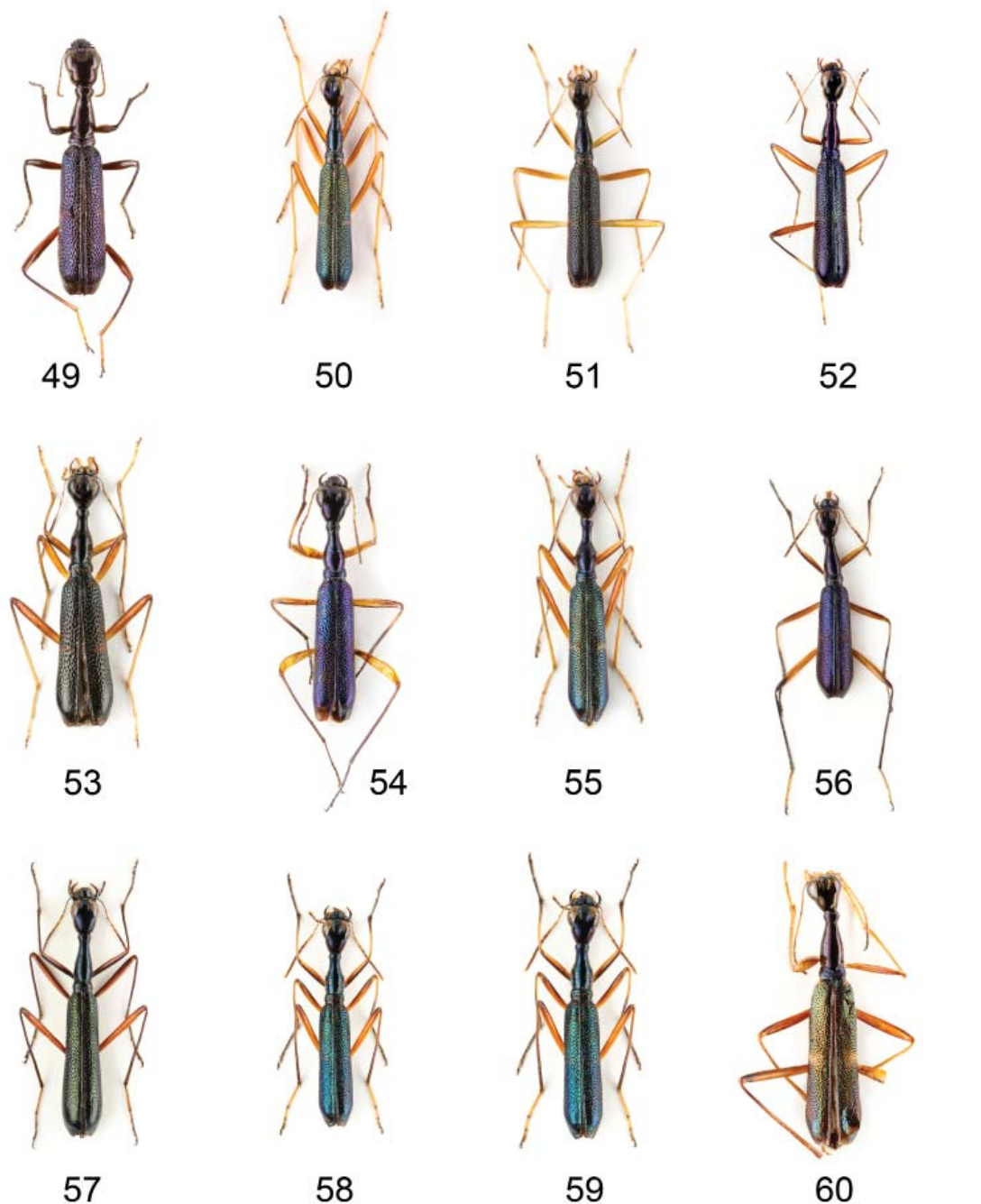
**Figures 25-36.** Habitus pictures. All scales = 10mm. **25)** *Neocollyris (Isocollyris) convergentefrontalis* (Horn, 1923), Tonkin, Lao Kay, holotype female (SDEI). **26)** *Neocollyris (Isocollyris) apiceflava* Dheurle, 2017, Vietnam, Thua Thien-Hue, paratype male (JWGC). **27)** *Neocollyris (Isocollyris) auripennis* (Horn, 1902), Vietnam, Cao Bang, male (JWGC). **28)** *Neocollyris (Isocollyris) erichwernerii* Naviaux and Schüle, 2008, Vietnam, Tam Dao, holotype female (PSGC). **29)** *Neocollyris (Isocollyris) moraveci* Naviaux, 2004, Vietnam, Tam Dao, holotype male (SHNAO). **30)** *Neocollyris (Isocollyris) modica* Naviaux, 1994, Vietnam, Vinh Phuc, holotype male (SHNAO). **31)** *Neocollyris (Paracollyris) brevipronotalis* (Horn, 1929), Tonkin, Chapa, holotype female (SDEI). **32)** *Neocollyris (Neocollyris) bonellii bonellii* (Guérin-Méneville, 1834), Laos, Luangnamtha, male (JWGC). **33)** *Neocollyris (Neocollyris) moesta moesta* (Schmidt-Goebel, 1846), Laos, Vientiane, male (JWGC). **34)** *Neocollyris (Neocollyris) moesta fusca* Naviaux, 1994, Vietnam, Dong Nai, male (JWGC). **35)** *Neocollyris (Neocollyris) cruentata* (Schmidt-Goebel, 1846), Laos, Vientiane, male (JWGC). **36)** *Neocollyris (Neocollyris) stiengensis* (Horn, 1914), Vietnam, Bao Loc, male (JWGC).



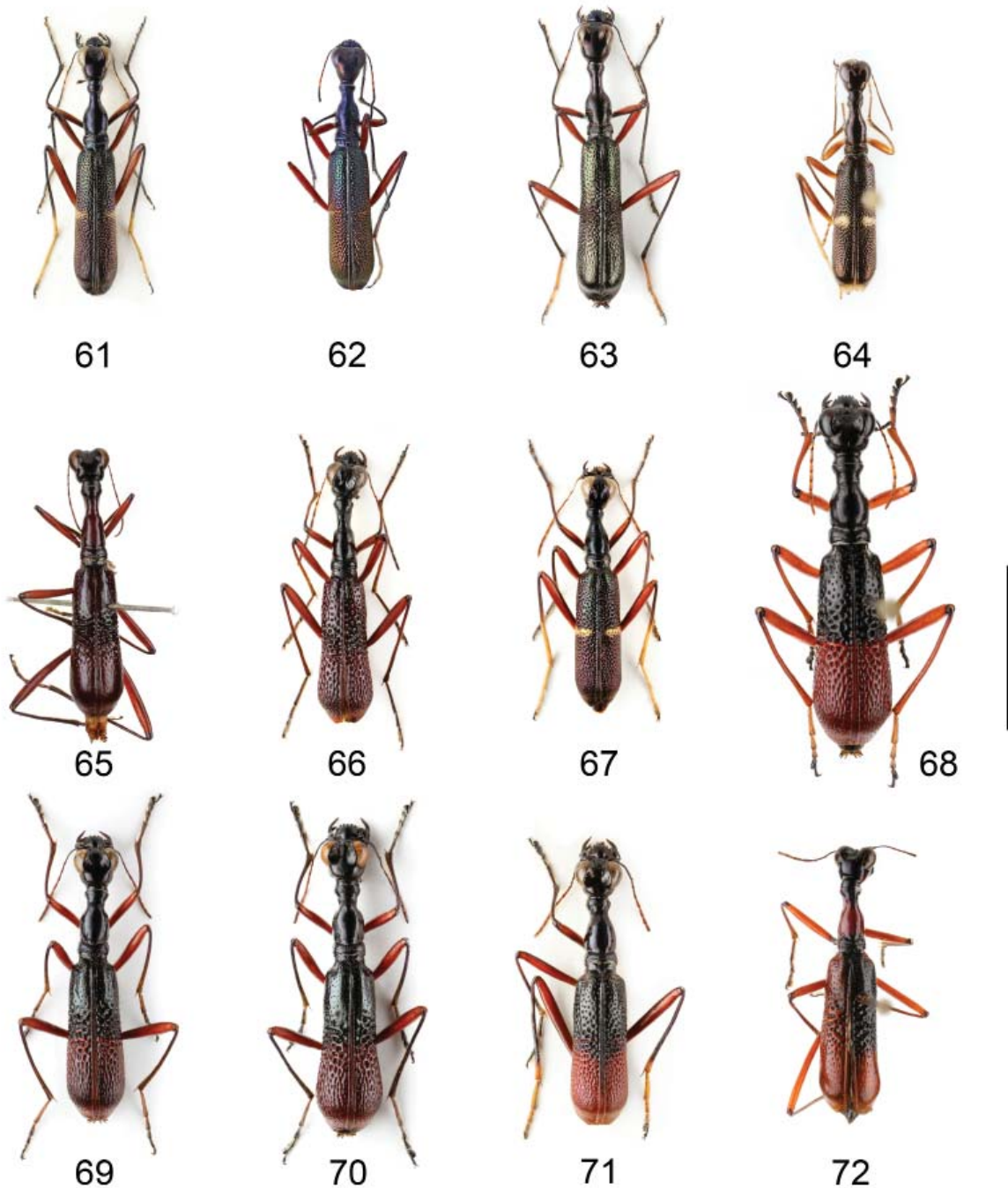


**Figures 37-48.** Habitus pictures. All scales = 10mm. **37)** *Neocollyris* (*Neocollyris*) *impressifrons* (Chaudoir, 1864), Cochinchine, paratype male (SDEI). **38)** *Neocollyris* (*Neocollyris*) *orichalcina orichalcina* (Horn, 1896), Vietnam, Dalat, male (JWGC). **39)** *Neocollyris* (*Neocollyris*) *intermedia* Naviaux, 1994, Laos, Luangnamtha, male (JWGC). **40)** *Neocollyris* (*Neocollyris*) *fuscitarsis* (Schmidt-Goebel, 1846), Laos, Khammuane, male (JWGC). **41)** *Neocollyris* (*Neocollyris*) *pseudosignata* (Horn, 1902), Laos, Borikhamxay, male (JWGC). **42)** *Neocollyris* (*Neocollyris*) *compacta* Naviaux, 1994, Vietnam, Tam Dao, holotype female (ZSMC). **43)** *Neocollyris* (*Neocollyris*) *deuvei* Naviaux, 1991, Cochinchine, holotype female (NHMW). **44)** *Neocollyris* (*Neocollyris*) *similis* (Lesne, 1891), Vietnam, Nam Cat Tien, female (JWGC). **45)** *Neocollyris* (*Neocollyris*) *rufipalpis* (Chaudoir, 1864), Laos, Borikhamxay, male (JWGC). **46)** *Neocollyris* (*Orthocollyris*) *crassicornis crassicornis* (Dejean, 1825), S India, Pudukkottai, male (JWGC). **47)** *Neocollyris* (*Orthocollyris*) *karli* Naviaux, 1996, Vietnam, An Khe, holotype male (ZSMC). **48)** *Neocollyris* (*Orthocollyris*) *labiopalpalis* (Horn, 1932), Tonkin, Chapa, holotype male (SDEI).

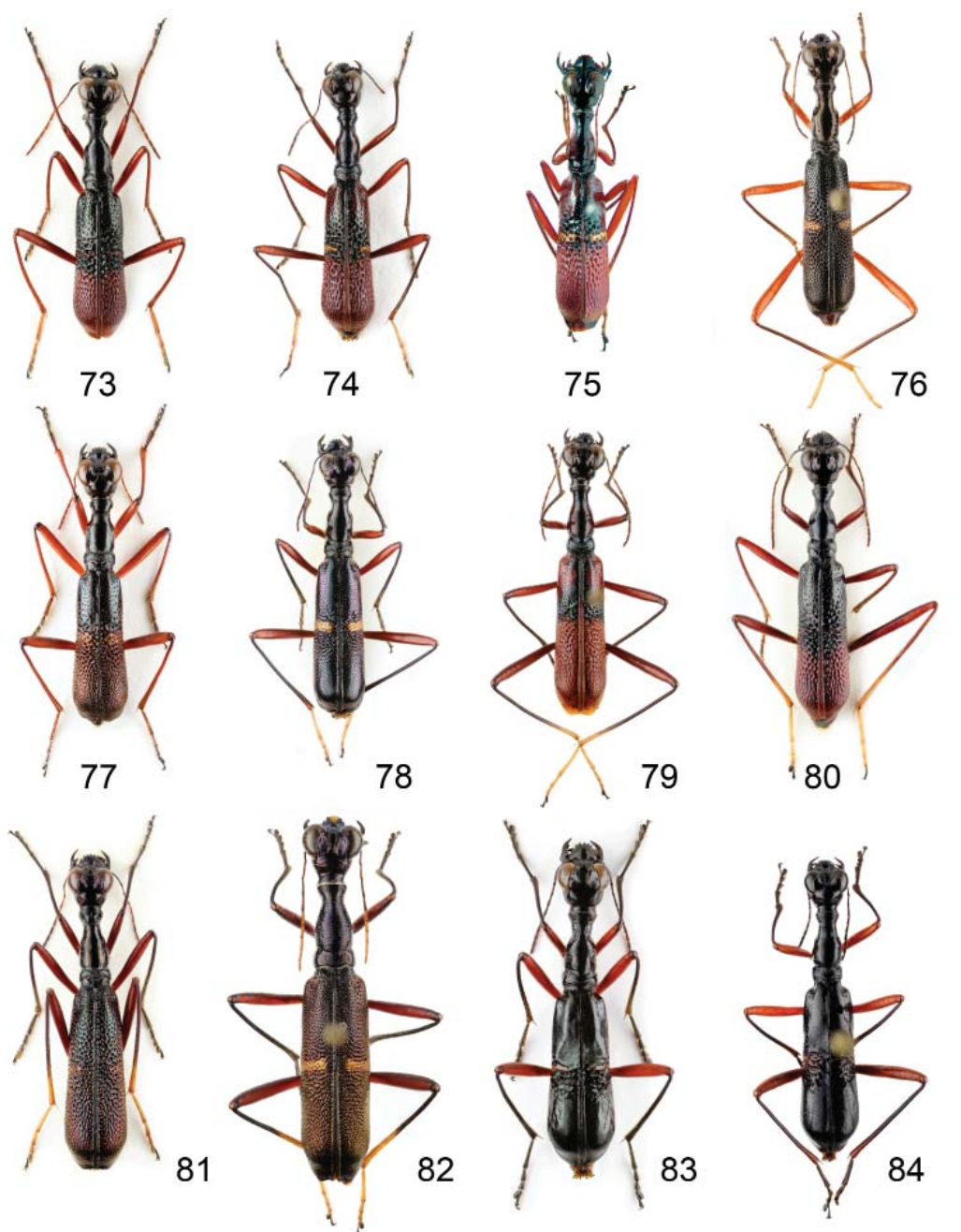




**Figures 49-60.** Habitus pictures. All scales = 10mm. **49)** *Neocollyris (Orthocollyris) rapillyi* Naviaux, 1992, Tonkin, Hoa Binh, holotype female (MNHN). **50)** *Neocollyris (Leptocollyris) linearis linearis* (Schmidt-Goebel, 1846), Laos, Luangnamtha, male (JWGC). **51)** *Neocollyris (Leptocollyris) discretegrossesculpta* (Horn, 1942), Vietnam, Tam Dao, male (JWGC). **52)** *Neocollyris (Leptocollyris) gomyi* Naviaux, 2008, Vietnam, Nam Cat Tien, allotype female (JWGC). **53)** *Neocollyris (Leptocollyris) rogeri* Shook and Wu, 2006, Vietnam, Ninh Binh, male (JWGC). **54)** *Neocollyris (Leptocollyris) concinna* Naviaux, 1995, Vietnam, Hoa binh, holotype male (MNHN). **55)** *Neocollyris (Leptocollyris) variicornis* (Chaudoir, 1864), Laos, Luangprabang, male (JWGC). **56)** *Neocollyris (Leptocollyris) subtilis subtilis* (Chaudoir, 1863), Vietnam, Nam Cat Tien, male (JWGC). **57)** *Neocollyris (Leptocollyris) juergenuwiesneri* Naviaux, 1995, Vietnam, Bao Loc, holotype female (JWGC). **58)** *Neocollyris (Leptocollyris) variitarsis* (Chaudoir, 1860), Vietnam, Bao Loc, male (JWGC). **59)** *Neocollyris (Leptocollyris) minuta* Naviaux, 1995, Thailand, Surat Thani, paratype male (JWGC). **60)** *Neocollyris (Leptocollyris) ampliata* Naviaux, 1995, Vietnam, Vinh Phuc, holotype male (NHMW).

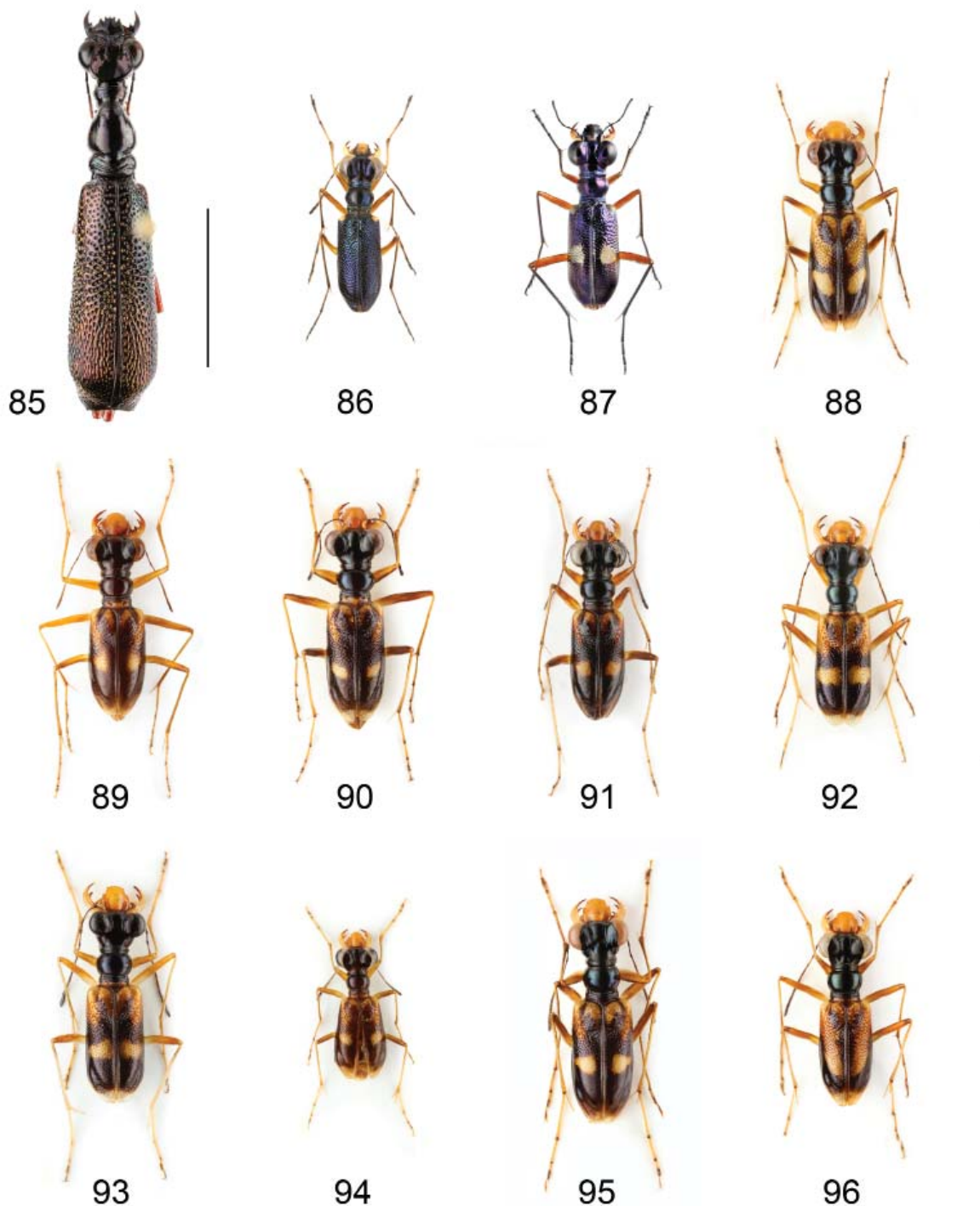


**Figures 61-72.** Habitus pictures. All scales = 10mm. **61)** *Neocollyris* (*Leptocollyris*) *cylindripennis* (Chaudoir, 1864), Laos, Borikhamxay, male (JWGC). **62)** *Neocollyris* (*Leptocollyris*) *laosensis* Naviaux, 1999, Vietnam, Yen Bai, male (ZISP, photo by Andrey Matalin). **63)** *Neocollyris* (*Leptocollyris*) *globicollis* Naviaux, 1995, Vietnam, Bao Loc, holotype female (JWGC). **64)** *Neocollyris* (*Mesocollyris*) *kabakovi* Naviaux and Matalin, 2003, Vietnam, Gialai, holotype male (ZISP). **65)** *Neocollyris* (*Stenocollyris*) *rubens* (Bates, 1878), Assam, Margerita, female (SDEI). **66)** *Neocollyris* (*Stenocollyris*) *compressicollis* (Horn, 1909), Laos, Luangnamtha, male (JWGC). **67)** *Neocollyris* (*Stenocollyris*) *signata* (Horn, 1902), Laos, Luangnamtha, male (JWGC). **68)** *Neocollyris* (*Pachycollyris*) *bipartita bipartita* (Fleutiaux, 1897), Laos, Champasak, female (SHNAO). **69)** *Neocollyris* (*Pachycollyris*) *bipartita unicolor* (Horn, 1935), Vietnam, Bao Loc, female (JWGC). **70)** *Neocollyris* (*Pachycollyris*) *inflata* Naviaux, 1999, Vietnam, Bao Loc, holotype female (ZSMC). **71)** *Neocollyris* (*Pachycollyris*) *bicolor* (Horn, 1902), Vietnam, Hoang Lien Son, male (JWGC). **72)** *Neocollyris* (*Pachycollyris*) *foveifrons* (Horn, 1901), India, Khasis, holotype male (SDEI).



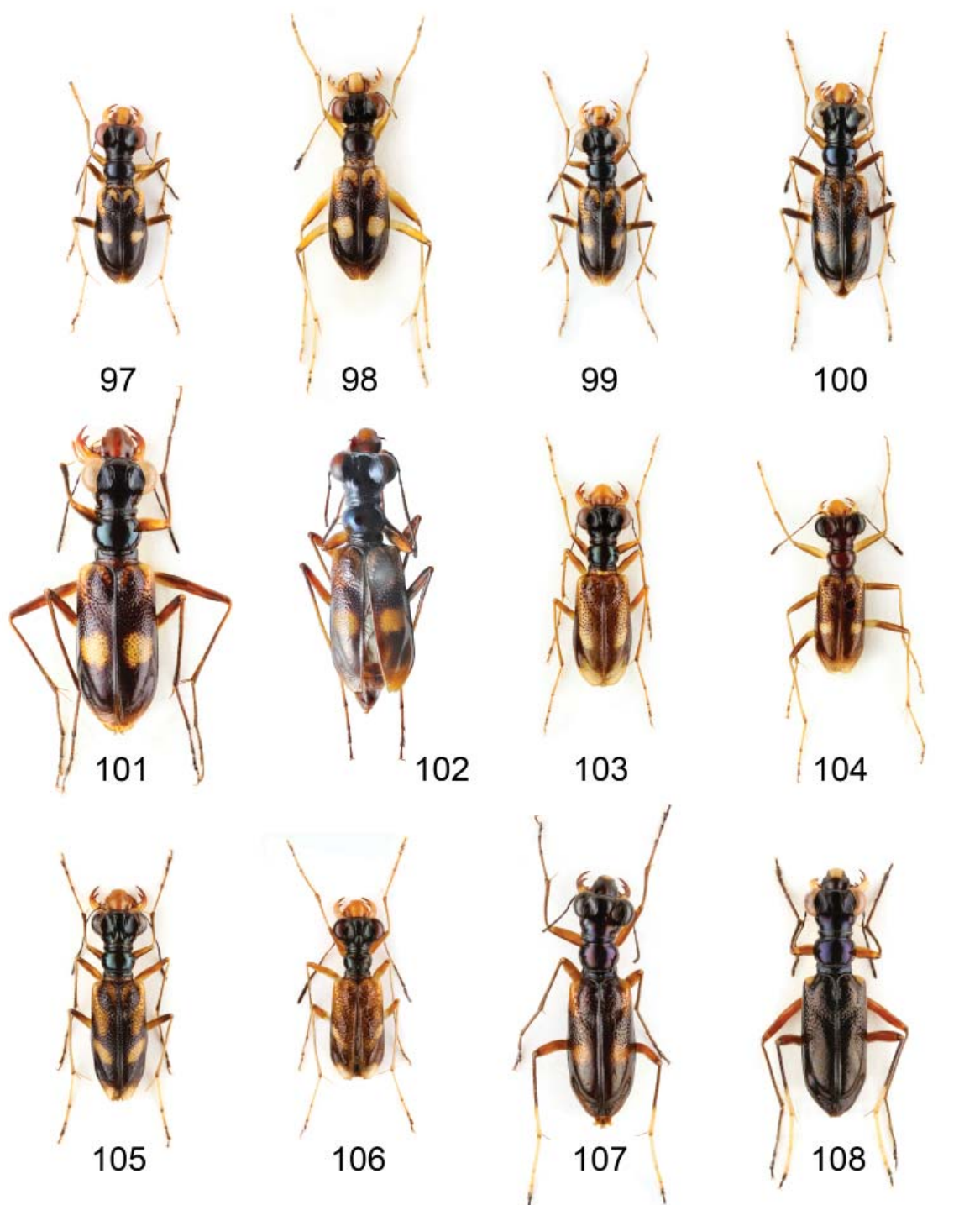
**Figures 73-84.** Habitus pictures. All scales = 10mm. **73)** *Neocollyris (Pachycollyris) vitalisi* (Horn, 1924), Laos, Luangnamtha, male (JWGC). **74)** *Neocollyris (Pachycollyris) tricolor* Naviaux, 1991, Laos, Luangnamtha, female (JWGC). **75)** *Neocollyris (Pachycollyris) panfilovi* Naviaux and Matalin, 2002, China, Yunnan, holotype female (ZISP, photo by Andrey Matalin). **76)** *Neocollyris (Pachycollyris) fasciata* (Chaudoir, 1864), Thailand, Chanthaburi, male (SHNAO). **77)** *Neocollyris (Pachycollyris) biimpressa* (Horn, 1937), Laos, Attapeu, male (JWGC). **78)** *Neocollyris (Pachycollyris) vietnamensis* Mandl, 1970, Vietnam, Dong Nai, paratype female of *N. rivalieri* Naviaux, 1995 (NHMW). **79)** *Neocollyris (Pachycollyris) sawadai* Naviaux, 1991, Vietnam, Tam Dao, paratype male (SHNAO). **80)** *Neocollyris (Pachycollyris) murzini* Naviaux, 1992, Vietnam, Bako forest, holotype male (NHMW). **81)** *Neocollyris (Pachycollyris) strangulata* Naviaux, 1991, Laos, Borikhamxay, female (JWGC). **82)** *Neocollyris (Pachycollyris) mouhotii nagaii* Naviaux and Sawada, 1992, Vietnam, Tam Dao, paratype male (SHNAO). **83)** *Neocollyris (Pachycollyris) pseudocontracta* (Horn, 1937), Vietnam, Bao Loc, female (JWGC). **84)** *Neocollyris (Pachycollyris) nitida* Naviaux, 1995, Tonkin, holotype female (SHNAO).



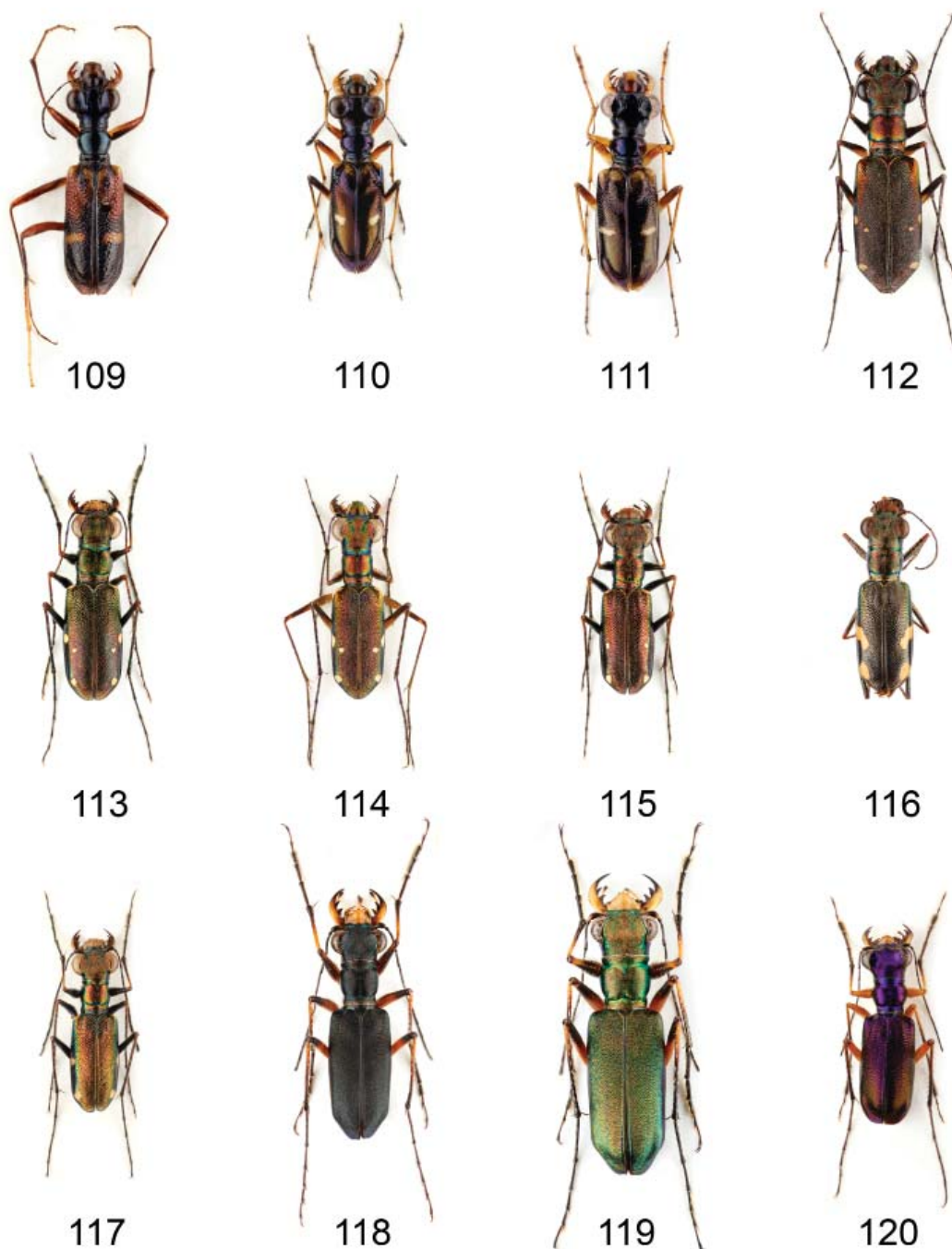


**Figures 85-96.** Habitus pictures. All scales = 10mm. **85)** *Collyris mniszechii* Chaudoir, 1864, Thailand, Chiang Rai, female, (JWGC). **86)** *Therates rugulosus* Horn, 1900, Laos, Borikhamxay, male (JWGC). **87)** *Therates cribratus* Fleutiaux, 1893, Vietnam, Gia Lai, female (MPU, photo by Andrey Matalin). **88)** *Therates baolocensis* Wiesner, 1996, Vietnam, Bao Loc, holotype female (JWGC). **89)** *Therates topali* Mandl, 1972, Vietnam, Ninh Binh, paratype female (JWGC). **90)** *Therates probsti* Wiesner, 1988, Vietnam, Vinh Phuc, paratype female (JWGC). **91)** *Therates vietnamensis* Wiesner, 1988, Vietnam, Ninh Binh, male (JWGC). **92)** *Therates concinnus* Gestro, 1888, Laos, Luangnamtha, paratype male (of *Therates differens* Sawada and Wiesner, 1999, JWGC). **93)** *Therates bannapecolus* Sawada and Wiesner, 1999, Vietnam, Ninh Binh, male (JWGC). **94)** *Therates gestroi* Horn, 1900, Vietnam, Tuyen Quang, male (JWGC). **95)** *Therates pearsoni* Wiesner, 2013, Vietnam, Quang Binh, paratype male (JWGC). **96)** *Therates confluens* Wiesner, 1988, Vietnam, Bao Loc, male (JWGC).

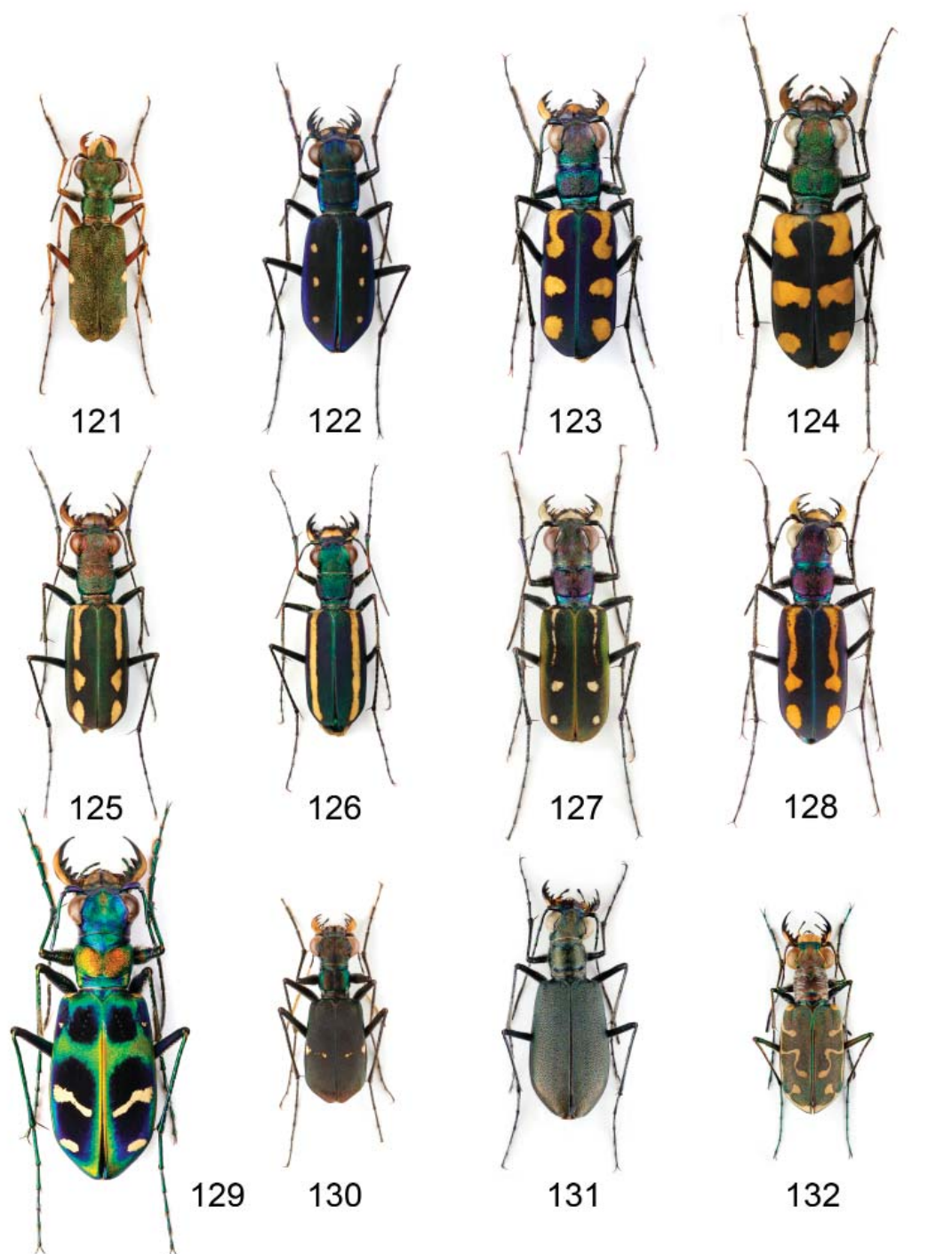




**Figures 97-108.** Habitus pictures. All scales = 10mm. **97)** *Therates schuelei* Wiesner, 2013, Vietnam, Hue, holotype male (JWGC). **98)** *Therates rugifer* Horn, 1902, Vietnam, Vinh Phuc, male (JWGC). **99)** *Therates aligii* Wiesner, 2016, Vietnam, Thua Tien Hue, paratype male (JWGC). **100)** *Therates paulae* Wiesner, 2016, Vietnam, Thua Tien Hue, paratype male (JWGC). **101)** *Therates tonkinensis* Horn, 1902, Vietnam, Tam Dao, female (JWGC). **102)** *Therates kubani* Wiesner, 1988, Vietnam, Thai Nguyen, male (MPU, photo by Andrey Matalin). **103)** *Therates haucki* Moravec and Wiesner, 2001, Thailand, Nan, holotype female (JWGC). **104)** *Therates clavicornis* Horn, 1902, Tonkin, Montes Mauson, lectotype male (SDEI). **105)** *Therates kaliakini* Matalin and Wiesner, 2006, Vietnam, Khan Hoa, paratype female (JWGC). **106)** *Therates dalatensis* Matalin, Wiesner and Udovichenko, 2012, Vietnam, Da Lat, paratype male (JWGC). **107)** *Therates angustatus angustatus* Horn, 1902, Tonkin, Montes Mauson, syntype female (SDEI). **108)** *Therates angustatus pseudotuberosus* Wiesner, 1988, Vietnam, Vinh Phuc, male (JWGC).

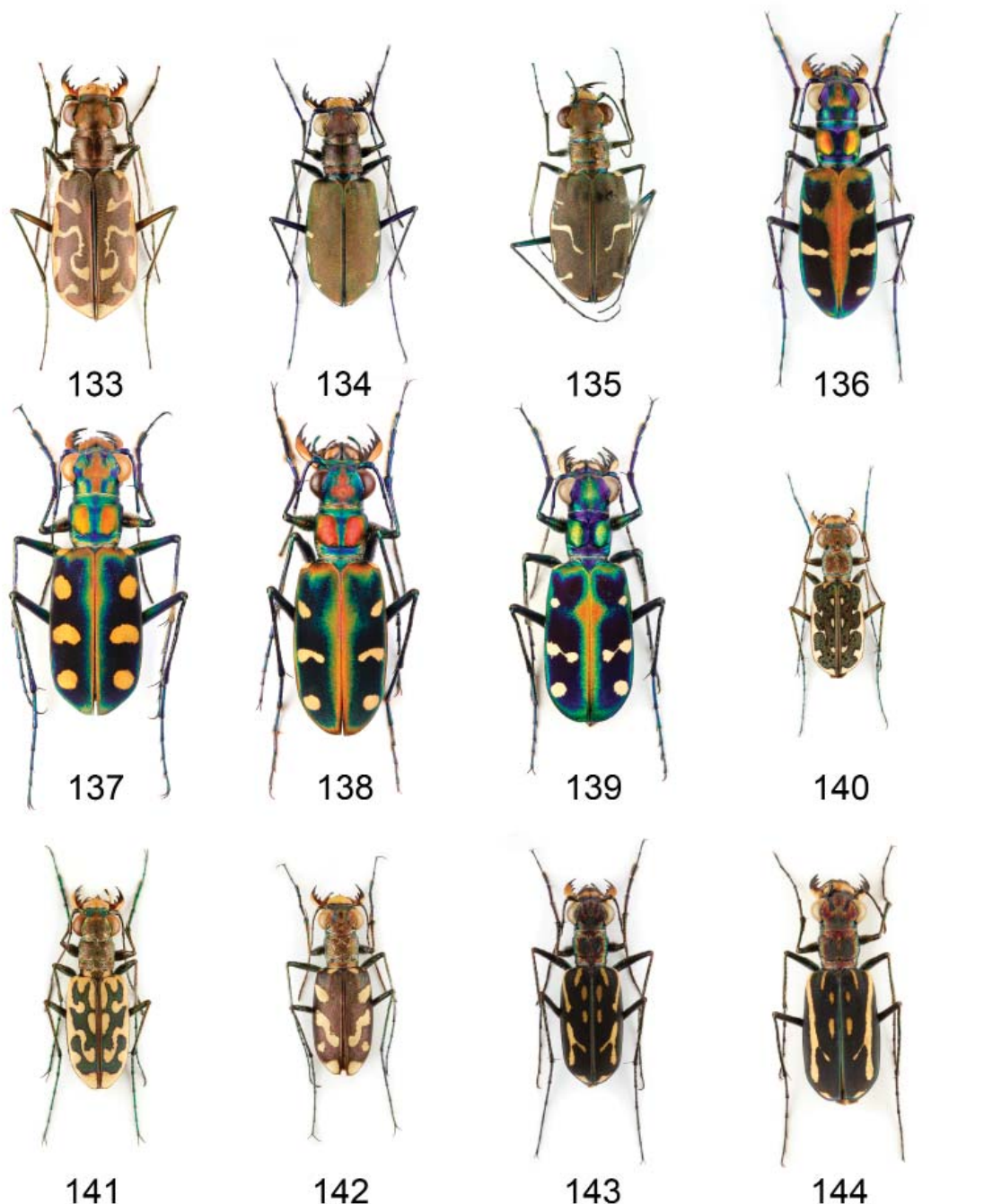


**Figures 109-120.** Habitus pictures. All scales = 10mm. **109)** *Therates rugosoangustatus* Horn, 1929, Vietnam, Chapa, syntype male (SDEI). **110)** *Therates fruhstorferi fruhstorferi* Horn, 1902, Vietnam, Ninh Binh, male (JWGC). **111)** *Therates vitalisi* Horn, 1913, Vietnam, Bac Giang, male (JWGC). **112)** *Prothyma (Paraprothyma) exornata* Schmidt-Goebel, 1846, Cambodia, Mondolkiri, female (JWGC). **113)** *Prothyma (Paraprothyma) schmidtgoebeli* Horn, 1895, Thailand, Khampaeng Phet, male (JWGC). **114)** *Prothyma (Genoprothyma) heteromalla* (Macleay, 1825), Thailand, Saraburi, male (JWGC). **115)** *Prothyma (Genoprothyma) bouvieri bouvieri* Horn, 1896, Laos, Khammuane, male (JWGC). **116)** *Prothyma (Genoprothyma) annamica* Deuve, 2002, Annam, holotype female (MNHN). **117)** *Prothyma (Genoprothyma) fallaciosa fallaciosa* Rivalier, 1964, Laos, Vientiane, male (JWGC). **118)** *Heptodonta pulchella* (Hope, 1831), China, Fujian, male (JWGC). **119)** *Heptodonta ferrarii ferrarii* Gestro, 1893, Vietnam, Tay Yen Tu, male (JWGC). **120)** *Heptodonta eugenia* Chaudoir, 1865, Laos, Luangnamtha, male (JWGC).



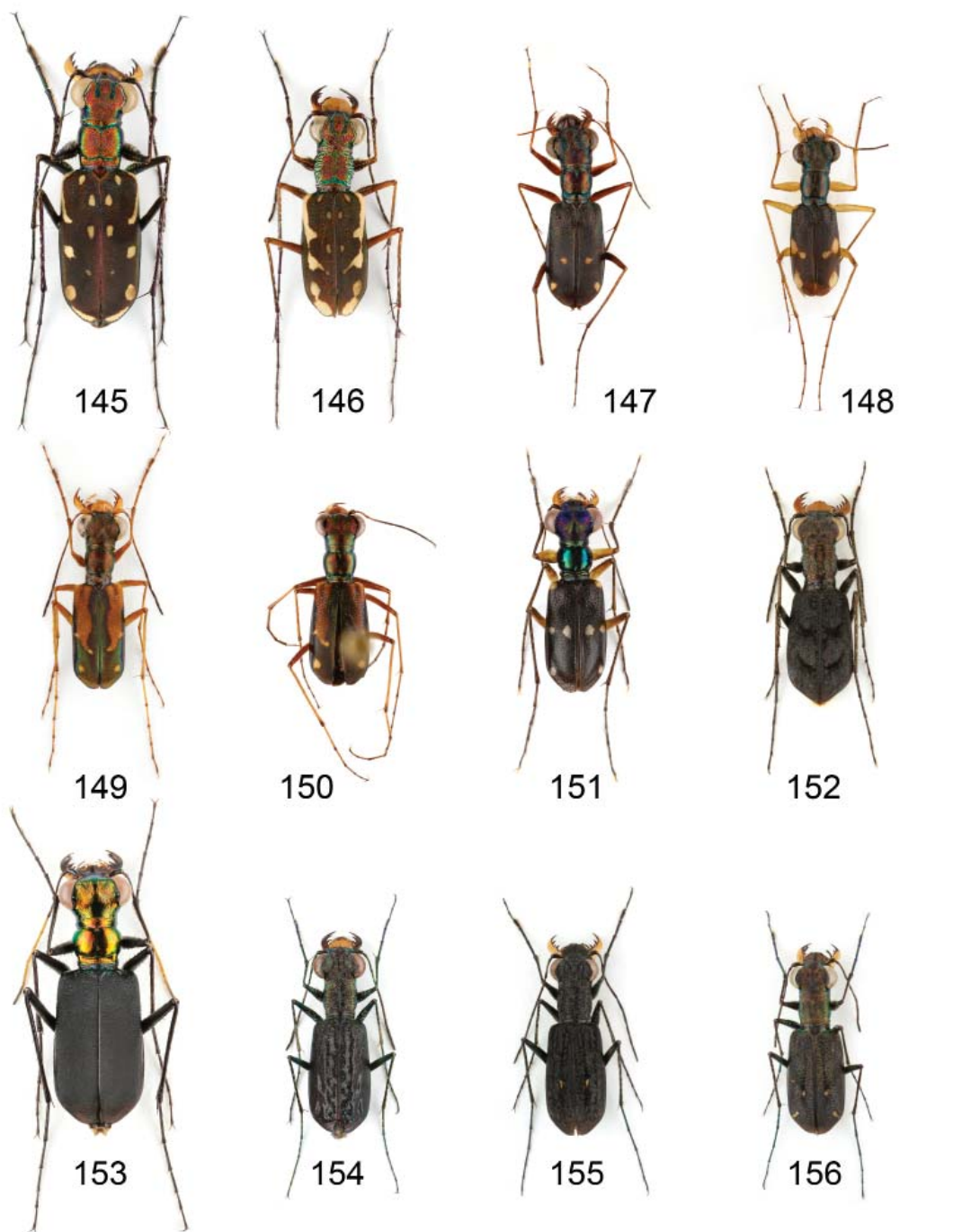
**Figures 121-132.** Habitus pictures. All scales = 10mm. **121)** *Pronysa nodicollis* Bates, 1874, Vietnam, Hoang Lien, male (JWGC). **122)** *Calochroa flavomaculata flavomaculata* (Hope, 1831), China, Yunnan, male (JWGC). **123)** *Calochroa elegantula* (Dokhtouroff, 1882), Laos, Luangphrabang, male (JWGC). **124)** *Calochroa pseudosiamensis* (Horn, 1913), Laos, Viang Chan, male (JWGC). **125)** *Calochroa interruptofasciata interruptofasciata* (Schmidt-Goebel, 1846), Thailand, Kanchanaburi, male (JWGC). **126)** *Calochroa interruptofasciata flavolineata* (Chaudoir, 1865), Vietnam, Ha Giang, female (JWGC). **127)** *Calochroa harmandi* (Fleutiaux, 1893), Laos, Champasak, male (JWGC). **128)** *Calochroa bramani* (Dokhtouroff, 1882), Vietnam, Nam Cat Tien, male (JWGC). **129)** *Cicindela (Sophiodela) chinensis chinensis* (Geer, 1774), China, Jiangxi, male (JWGC). **130)** *Cicindela (Pseudoverticina) antennalis* Cassola, 2011, Vietnam, Cao Bang, male (JWGC). **131)** *Calomera brevipilosa brevipilosa* (Horn, 1908), China, Gansu, female (ZSMC). **132)** *Calomera angulata angulata* (Fabricius, 1798), India, Meghalaya, male (JWGC).



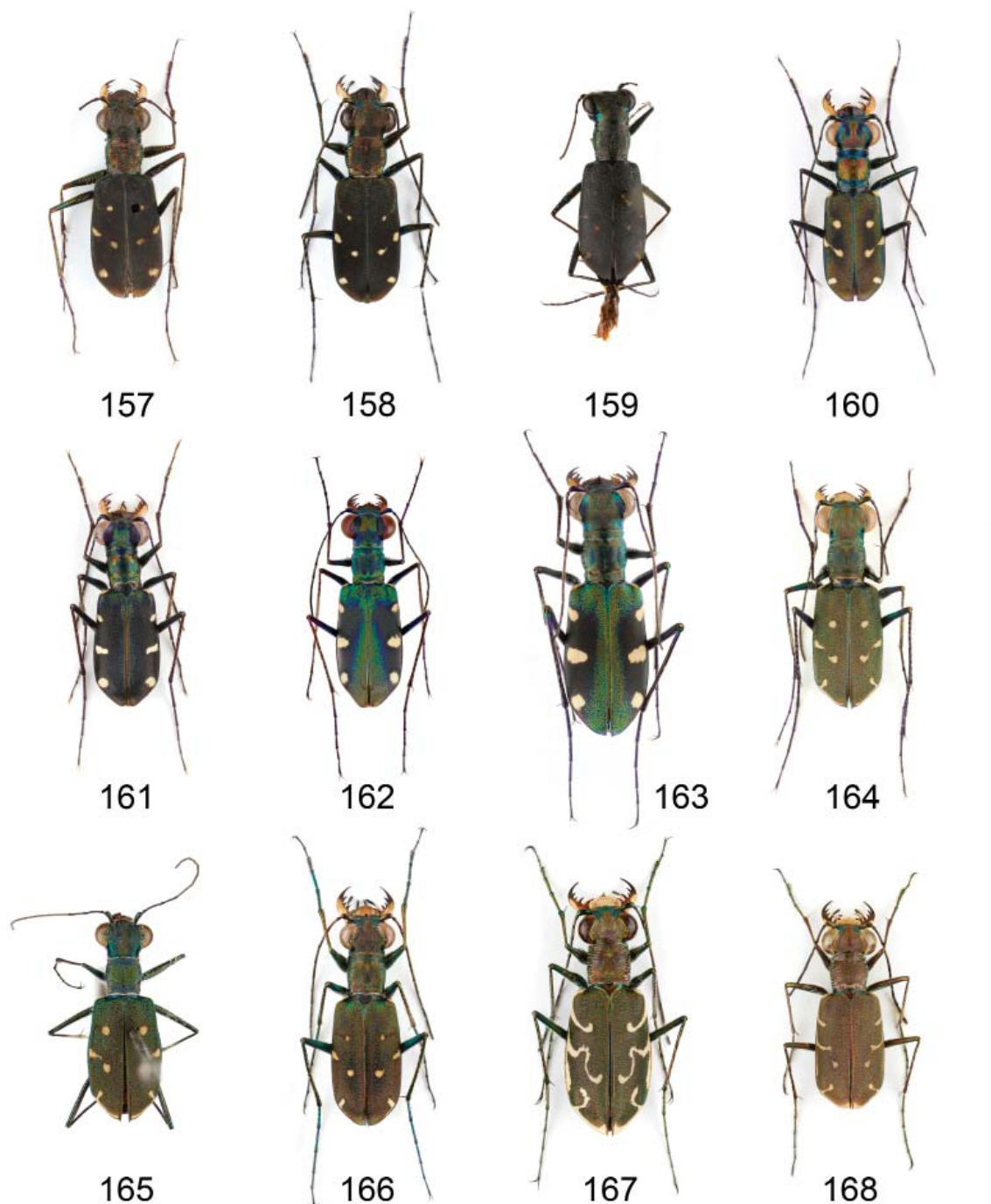


**Figures 133-144.** Habitus pictures. All scales = 10mm. **133)** *Calomera plumigera scoliographa* (Rivalier, 1953), Laos, Tad Leuk, male (JWGC). **134)** *Calomera funerea funerea* (Macleay, 1825), Thailand, Khampaeng Phet, male (JWGC). **135)** *Calomera funerea genetica* (Horn, 1926), Annam, holotype female (SDEI). **136)** *Cosmodela duponti duponti* (Dejean, 1826), Vietnam, Nam Cat Tien, male (JWGC). **137)** *Cosmodela juxtata* (Acciavatti and Pearson, 1989), Vietnam, Huei Sua Tao, male (JWGC). **138)** *Cosmodela virgula* (Fleutiaux, 1893), Laos, Oudomxay, male (JWGC). **139)** *Cosmodela separata* (Fleutiaux, 1893), Vietnam, Lao Cai, male (JWGC). **140)** *Lophyra* (*Lophyra*) *fuliginosa* (Dejean, 1826), Cambodia, Ratanakiri, male (JWGC). **141)** *Lophyra* (*Lophyra*) *cancellata cancellata* (Dejean, 1825), Thailand, Kanchanaburi, male (JWGC). **142)** *Lophyra* (*Lophyra*) *kuznetzowi* Tscherkasov, 1992, Vietnam, Dong Nai, paratype male (JWGC). **143)** *Lophyra* (*Spilodia*) *striolata striolata* (Illiger, 1800), Vietnam, Nam Cat Tien, male (JWGC). **144)** *Lophyra* (*Spilodia*) *striolata dorsolineolata* (Chevrolat, 1845), China, Yunnan, female (JWGC).

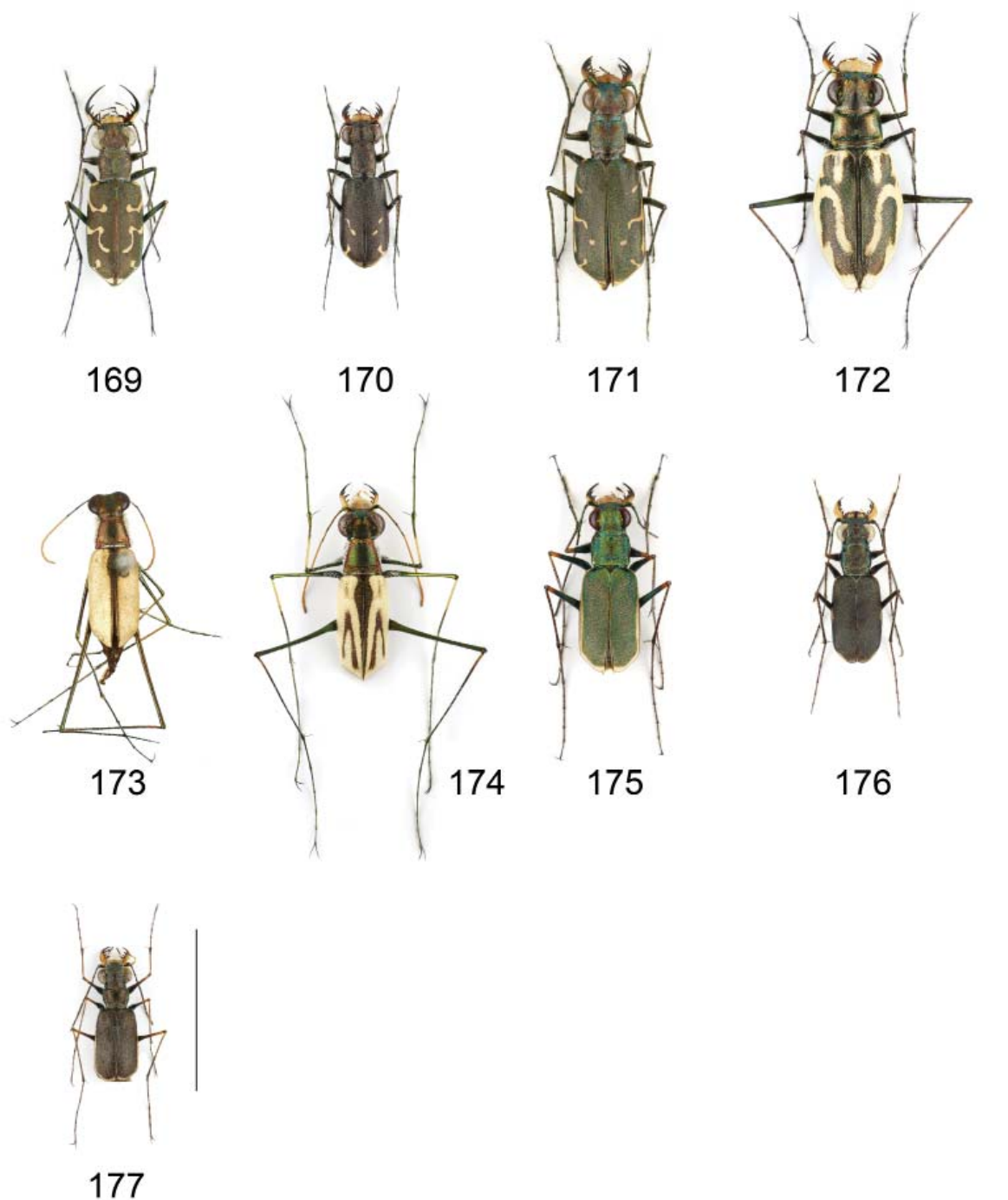




**Figures 145-156.** Habitus pictures. All scales = 10mm. **145)** *Lophyra (Spilodia) lineifrons* (Chaudoir, 1865), Vietnam, Nam Cat Tien, male (JWGC). **146)** *Lophyra (Spilodella) cora* Matalin and Cherkasov, 2004, Vietnam, Vung Tao, male (JWGC). **147)** *Naviauxella labiosa* Naviaux, 1996, Vietnam, Ban Me Thuot, holotype female (CMNH). **148)** *Naviauxella acciavattii* Naviaux, 1996, Vietnam, Pleiku, holotype male (CMNH). **149)** *Naviauxella rufovittata* Cassola and Werner, 1995, Vietnam, Bao Loc, paratype male (JWGC). **150)** *Naviauxella snowiana* Cassola, 2002, Vietnam, Dong Nai, paratype male (KUNHM). **151)** *Probstia triumphalis* (Horn, 1902), Vietnam, Bac Giang, male (JWGC). **152)** *Cylindera (Cylindera) delavayi* (Fairmaire, 1886), Laos, Luangphrabang, male (JWGC). **153)** *Cylindera (Verticina) antoni* Cassola and Probst, 1996, Laos, Borikhamxay, female (JWGC). **154)** *Cylindera (Ifasina) foveolata* (Schaum, 1863), Vietnam, Lai Chau, male (JWGC). **155)** *Cylindera (Ifasina) cyclobregma* Acciavatti and Pearson, 1989, Laos, Luangnamtha, male (JWGC). **156)** *Cylindera (Ifasina) viduata* (Fabricius, 1801), Vietnam, Nam Cat Tien, male (JWGC).



**Figures 157-168.** Habitus pictures. All scales = 10mm. **157)** *Cylindera (Ifasina) fallaciosa* (Horn, 1897), Tonkin, Montes Mouson, male (SDEI). **158)** *Cylindera (Ifasina) somnuki* Naviaux, 1991, Thailand, Kanchanaburi, paratype male (ZSMC). **159)** *Cylindera (Ifasina) pronotalis* (Horn, 1922), Tonkin, Hoa Binh, holotype female (SDEI). **160)** *Cylindera (Ifasina) spinolae spinolae* (Gestro, 1889), Laos, Vientiane, male (JWGC). **161)** *Cylindera (Ifasina) decolorata* (Horn, 1907), China, Guangdong, male (JWGC). **162)** *Cylindera (Ifasina) lesnei* (Babault, 1923), Vietnam, Na Hang, female (photo by Andrey Matalin). **163)** *Cylindera (Ifasina) ilonae* Matalin, 2015, Vietnam, Na Hang, holotype male (ZISP). **164)** *Cylindera (Ifasina) decempunctata* (Dejean, 1825), Vietnam, Nam Cat Tien, male (JWGC). **165)** *Cylindera (Ifasina) humillima* (Gestro, 1893), Birmania, Bhamo, paralectotype female (SDEI). **166)** *Cylindera (Ifasina) kaleea kaleea* (Bates, 1866), China, Sichuan, male (JWGC). **167)** *Cylindera (Eugrapha) elisae* (Motschulsky, 1859), China, Yunnan, male (JWGC). **168)** *Cylindera (Eugrapha) minuta* (Olivier, 1790), Vietnam, Nam Cat Tien, male (JWGC).



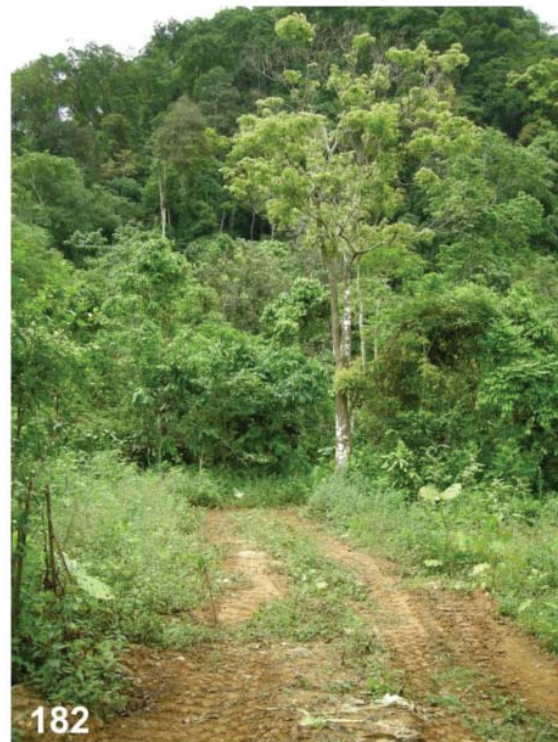
**Figures 169-177.** Habitus pictures. All scales = 10mm. **169)** *Cylindera (Eugrapha) mutata* (Fleutiaux, 1893), Laos, Khammuane, male (JWGC). **170)** *Myriochila (Myriochila) sinica* (Fleutiaux, 1889), Laos, Khammuane, male (JWGC). **171)** *Myriochila (Myriochila) specularis specularis* (Chaudoir, 1865), China, Yunnan, male (JWGC). **172)** *Abroscelis anchoralis punctatissima* (Schaum, 1863), Japan, Ishikawa, female (JWGC). **173)** *Abroscelis tenuipes tenuipes* (Dejean, 1826), Cochinchina, male (SDEI). **174)** *Abroscelis tenuipes araneipes* (Schaum, 1863), Vietnam, Nhge An, male (PSGC). **175)** *Callytron nivicinctum* (Chevrolat, 1845), China, Hong Kong, male (JWGC). **176)** *Callytron andersonii* (Gestro, 1889), Laos, Khammuane, male (JWGC). **177)** *Enantiola hewittii* (Horn, 1908), Vietnam, Vung Tao, female (JWGC).





**Figures 178-179.** Pictures, taken by Saulo Bambi, Firenze on leaf at Hoa Binh, Pa Co Hang Kia Nature Reserve, 700-900m, vi.2013. **178)** *Neocollyris* spec. **179)** *Cosmodela juxtata* (Acciavatti and Pearson, 1989).





**Figures 180-182.** Habitat pictures, taken by Saulo Bambi, Firenze. **180)** Gia Lai, Kon Chu Rang Nature Reserve, surround. of rangers HQ, 900m, v.2016, collection site of *Naviauxella rufovittata* Cassola and Werner, 1995 and *Naviauxella snowiana* Cassola, 2002. **181)** Kon Tum, surroundings of Kon Plong, v.2016, collection site of *Cylindera (Cylindera) delavayi* (Fairmaire, 1886). **182)** Gia Lai, Kon Chu Rang Nature Reserve, about 8 km from HQ, 1100m, v.2016, collection site of *Tricondyla* spec., *Collyrina*, *Therates* spec. and *Cosmodela* spec.





**Figures 183-184.** Habitat pictures, taken by Saulo Bambi, Firenze. **183)** Kon Tum, surroundings of Kon Plong, 1250m, v.2016, collection site of *Tricondyla* (*Tricondyla*) *mellyi* Chaudoir, 1850. **184)** Thua Thien-Hue, Bach Ma National Park, Do Quyen water falls, 1250m, v.2014, collection site of *Heptodonta pulchella* (Hope, 1831).





**Figures 185-186.** Habitat pictures, taken by Saulo Bambi, Firenze. **185)** Cao Bang, Pia Oac Mt., 1600-2000m, vi.2012, collection site of *Cicindela (Pseudoverticina) antennalis* Cassola, 2011. **186)** Quang Binh, North of Phong Nha-Ke Bang Nature Reserve, on route 15, vi.2014, collection site of *Calomera angulata angulata* (Fabricius, 1798) and *Calomera funerea funerea* (Macleay, 1825).



**Figures 187-188.** Habitat pictures, taken by Saulo Bambi, Firenze. **187)** Thua Thien-Hue, Bach Ma National Park, 1350-1400m, v.2014, collection site of *Cosmodela duponti duponti* (Dejean, 1826) and *Therates* spec.. **188)** Kon Tum, surroundings of Kon Plong, v.2016, collection site of *Lophyra* (*Lophyra*) *fuliginosa* (Dejean, 1826) and *Lophyra* (*Lophyra*) *cancellata cancellata* (Dejean, 1825).



## The regions and provinces of Vietnam (in numerical order)

Northwest Region	
1	Lai Chau
2	Dien Bien
3	Son La
4	Hoa Binh

Northeast Region	
5	Lao Cai
6	Yen Bai
7	Phu Tho
8	Ha Giang
9	Tuyen Quang
10	Cao Bang
11	Bac Kan
12	Thai Nguyen
13	Lang Son
14	Bac Giang
15	Quang Ninh

Red River Delta Region	
16	Vinh Phuc
17	Ha Noi City
18	Ha Nam
19	Ninh Binh
20	Nam Dinh
21	Hung Yen
22	Thai Binh
23	Bac Ninh
24	Hai Duong
25	Hai Phong City

North Central Coast Region	
26	Thanh Hoa
27	Nghe An
28	Ha Tinh
29	Quang Binh
30	Quang Tri
31	Thua Thien- Hue

South Central Coast Region	
32	Da Nang City
33	Quang Nam
34	Quang Ngai
35	Binh Dinh
36	Phu Yen
37	Khanh Hoa

Central Highlands Region	
38	Kon Tum
39	Gia Lai
40	Dak Lak
41	Dak Nong
42	Lam Dong

Southeast Region	
43	Binh Phuoc
44	Binh Duong
45	Tay Ninh
46	Ninh Thuan
47	Binh Thuan
48	Dong Nai
49	Ba Ria-Vung Tau
50	Ho Chi Minh City

Mekong Delta Region	
51	Long An
52	Dong Thap
53	An Giang
54	Kien Giang
55	Tien Giang
56	Ben Tre
57	Vinh Long
58	Tra Vinh
59	Can Tho City
60	Hau Giang
61	Soc Trang
62	Bac Lieu
63	Ca Mau

## The provinces of Vietnam (in alphabetical order)

An Giang	53
Ba Ria-Vung Tau	49
Bac Giang	14
Bac Kan	11
Bac Lieu	62
Bac Ninh	23
Ben Tre	56
Binh Dinh	35
Binh Duong	44
Binh Phuoc	43
Binh Thuan	47
Ca Mau	63
Can Tho City	59
Cao Bang	10
Da Nang City	32
Dak Lak	40
Dak Nong	41
Dien Bien	2
Dong Nai	48
Dong Thap	52
Gia Lai	39

Ha Giang	8
Ha Nam	18
Ha Noi City	17
Ha Tinh	28
Hai Duong	24
Hai Phong City	25
Hau Giang	60
Ho Chi Minh City	50
Hoa Binh	4
Hung Yen	21
Khanh Hoa	37
Kien Giang	54
Kon Tum	38
Lai Chau	1
Lam Dong	42
Lang Son	13
Lao Cai	5
Long An	51
Nam Dinh	20
Nghe An	27
Ninh Binh	19

Ninh Thuan	46
Phu Tho	7
Phu Yen	36
Quang Binh	29
Quang Nam	33
Quang Ngai	34
Quang Ninh	15
Quang Tri	30
Soc Trang	61
Son La	3
Tay Ninh	45
Thai Binh	22
Thai Nguyen	12
Thanh Hoa	26
Thua Thien- Hue	31
Tien Giang	55
Tra Vinh	58
Tuyen Quang	9
Vinh Long	57
Vinh Phuc	16
Yen Bai	6

**Figure 189.** Table of the regions and provinces of Vietnam (in numerical and alphabetical order). From the administrative point of view, the Socialist Republic of Vietnam is divided into 63 provinces, which are often grouped in eight regions. Regions and provinces are shown in the map (Fig. 197).

Regions and Provinces of Vietnam		Nr.		species	
Regions and Provinces of Vietnam	Northwest	1		<i>Tricondyla (Tricondyla) pulchripes</i> White, 1844	
		2		<i>Tricondyla (Tricondyla) strickreps</i> Chaudoir, 1864	
		3		* <i>Tricondyla (Tricondyla) ledouxi</i> Naviaux, 2002	
		4		* <i>Tricondyla (Tricondyla) deuvei</i> Naviaux, 2002	
		5		<i>Tricondyla (Tricondyla) distincta</i> Fleutiaux, 1893	
		6		* <i>Tricondyla (Tricondyla) mouriznei</i> Naviaux, 2002	
	Northeast	7		<i>Tricondyla (Tricondyla) macrodonta abruptusculpta</i> Horn, 1925	
		8		<i>Tricondyla (Tricondyla) gestroi</i> Fleutiaux, 1893	
		9		<i>Tricondyla (Tricondyla) gestroi scabra</i> Fleutiaux, 1920	
		10		<i>Tricondyla (Tricondyla) ovaligrossa</i> W. Horn, 1922	
		11		<i>Tricondyla (Tricondyla) medyl</i> Chaudoir, 1850	
		12		<i>Tricondyla (Tricondyla) annulicornis</i> Schmidt-Göebel, 1846	
		13		<i>Tricondyla (Tricondyla) proxima</i> Fleutiaux, 1893	
		14		<i>Protocallyrhis festiva</i> Naviaux, 2008	
		15		<i>Protocallyrhis grossepunctata</i> (W. Horn, 1935)	
		16		* <i>Protocallyrhis annamensis</i> Naviaux, 1996	
	Red River Delta	17		<i>Neocalyris (Brachycalyris) purpurcomaculata borea</i> Naviaux, 1994	
		18		* <i>Neocalyris (Brachycalyris) brevis</i> Naviaux, 1994	
		19		<i>Neocalyris (Brachycalyris) torosa</i> Naviaux, 2010	
		20		<i>Neocalyris (locallyrhis) frustorferi</i> (W. Horn, 1902)	
		21		* <i>Neocalyris (locallyrhis) resplendens</i> (W. Horn, 1902)	
		22		* <i>Neocalyris (locallyrhis) grandivittata</i> (W. Horn, 1935)	
		23		* <i>Neocalyris (locallyrhis) purpurascens</i> Naviaux, 1992	
		24		* <i>Neocalyris (locallyrhis) paradoxa</i> Matalin & Naviaux, 2008	
		25		* <i>Neocalyris (locallyrhis) convergentifrons</i> (W. Horn, 1923)	
		26		* <i>Neocalyris (locallyrhis) apicellata</i> Dheurle, 2017	
	North Central Coast	27		<i>Neocalyris (locallyrhis) unipennis</i> (W. Horn, 1902)	
		28		* <i>Neocalyris (locallyrhis) erichsoni</i> Naviaux & Schille, 2008	
		29		* <i>Neocalyris (locallyrhis) muravet</i> Naviaux, 2004	
		30		* <i>Neocalyris (locallyrhis) modica</i> Naviaux, 1994	
	South Central Coast	31		endemic	
		32		Province?	
		33		Lai Chau	
		34		Dien Bien	
		35		Son La	
		36		Hoa Binh	
		37		Lao Cai	
		38		Yen Bai	
		39		Phu Tho	
		40		Ha Giang	
	Central Highlands	41		Tuyen Quang	
		42		Cao Bang	
		43		Bac Kan	
		44		Thai Nguyen	
		45		Lang Son	
		46		Bac Giang	
		47		Quang Ninh	
		48		Vinh Phuc	
		49		Ha Noi City	
		50		Ha Nam	
	Southeast	51		Ninh Binh	
		52		Nam Dinh	
		53		Hung Yen	
		54		Thai Binh	
		55		Bac Ninh	
		56		Hai Duong	
		57		Hai Phong City	
		58		Thanh Hoa	
		59		Nghie An	
		60		Ha Tinh	
	Mekong Delta	61		Quang Binh	
		62		Quang Tri	
		63		Thua Thien-Hue	
		64		Da Nang City	
		65		Quang Nam	
		66		Quang Ngai	
		67		Binh Dinh	
		68		Phu Yen	
		69		Khanh Hoa	
		70		Kon Tum	
		71		Gia Lai	
		72		Dak Lak	
		73		Dak Nong	
		74		Lam Dong	
		75		Binh Phuoc	
		76		Binh Duong	
		77		Tay Ninh	
		78		Ninh Thuan	
		79		Binh Thuan	
		80		Dong Nai	
		81		Ba Ria-Vung Tau	
		82		Ho Chi Minh City	
		83		Long An	
		84		Dong Thap	
		85		An Giang	
		86		Kien Giang	
		87		Tien Giang	
		88		Ben Tre	
		89		Vinh Long	
		90		Tra Vinh	
		91		Can Tho City	
		92		Hau Giang	
		93		Soc Trang	
		94		Bac Lieu	
		95		Ca Mau	
		96		China	
		97		Laos	
		98		Cambodia	

Figure 190. Table of the provincial records of the tiger beetles of Vietnam, species 1 to 30.







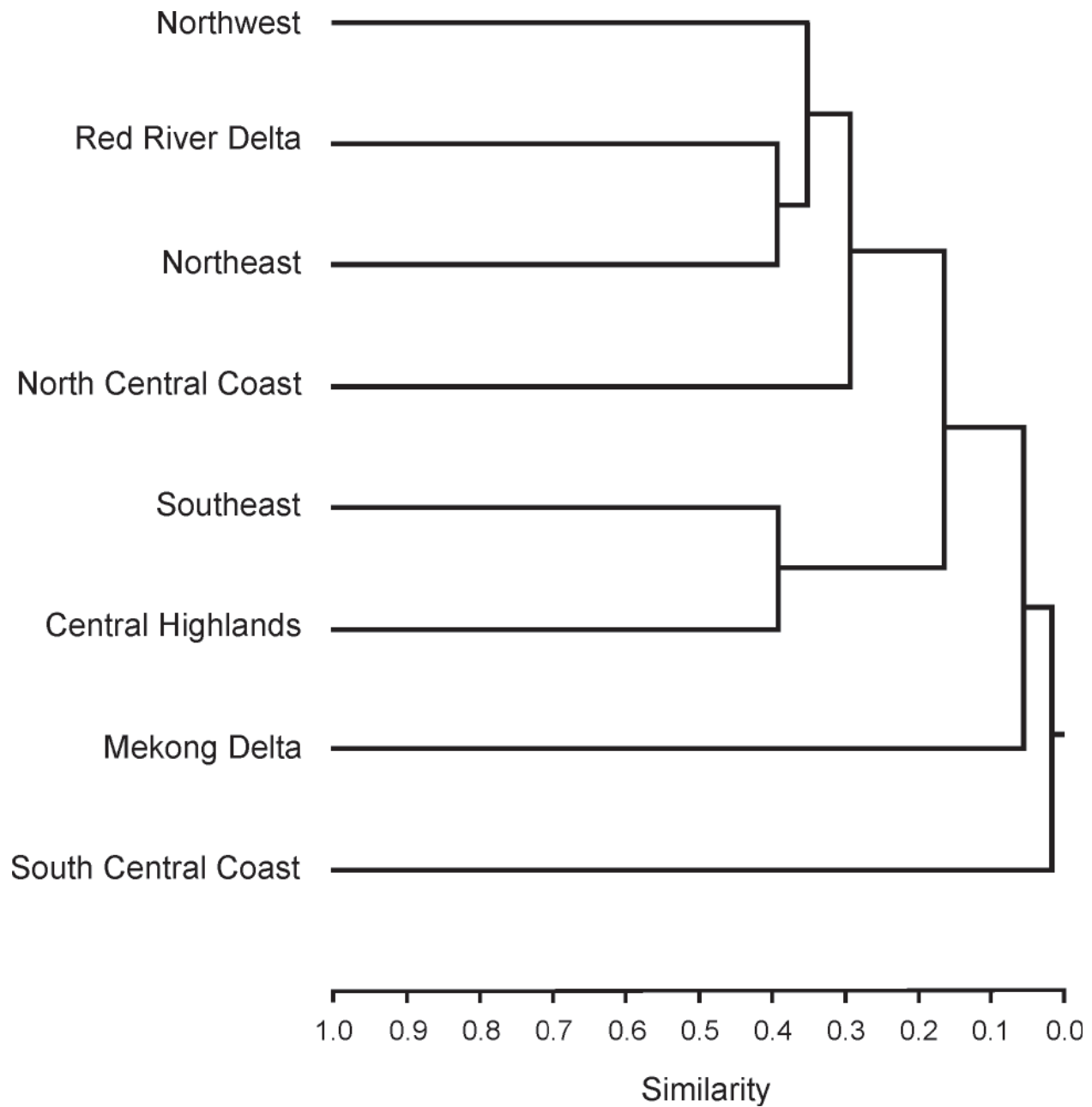
Regions and Provinces of Vietnam		endemic		species	
Northwest		Province?		Nr.	
1		Lai Chau		91	
2		Dien Bien		92	
3		Son La		93	
4		Hoa Binh		94	
5		Lao Cai		95	
6		Yen Bai		96	
7		Phu Tho		97	
8		Ha Giang		98	
9		Tuyen Quang		99	
10		Cao Bang		100	
11		Bac Kan		101	
12		Thai Nguyen		102	
13		Lang Son		103	
14		Bac Giang		104	
15		Quang Ninh		105	
16		Vinh Phuc		106	
17		Ha Noi City		107	
18		Ha Nam		108	
19		Ninh Binh		109	
20		Nam Dinh		110	
21		Hung Yen		111	
22		Thai Binh		112	
23		Bac Ninh		113	
24		Hai Duong		114	
25		Hai Phong City		115	
26		Thanh Hoa		116	
27		Nghe An		117	
28		Ha Tinh		118	
29		Quang Binh		119	
30		Quang Tri		120	
31		Thua Thien-Hue			
32		Da Nang City			
33		Quang Nam			
34		Quang Ngai			
35		Binh Dinh			
36		Phu Yen			
37		Khanh Hoa			
38		Kon Tum			
39		Gia Lai			
40		Dak Lak			
41		Dak Nong			
42		Lam Dong			
43		Binh Phuoc			
44		Binh Duong			
45		Tay Ninh			
46		Ninh Thuan			
47		Binh Thuan			
48		Dong Nai			
49		Ba Ria-Vung Tau			
50		Ho Chi Minh City			
51		Long An			
52		Dong Thap			
53		An Giang			
54		Kien Giang			
55		Tien Giang			
56		Ben Tre			
57		Vinh Long			
58		Tra Vinh			
59		Can Tho City			
60		Hau Giang			
61		Soc Trang			
62		Bac Lieu			
63		Ca Mau			
China					
Laos					
Cambodia					

Figure 193. Table of the provincial records of the tiger beetles of Vietnam, species 91 to 120.

Regions and Provinces of Vietnam		Northwest		Northeast										Red River Delta										North Central Coast										South Central Coast										Central Highlands										Southeast										Mekong Delta										Nr.	species																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		endemic Province?		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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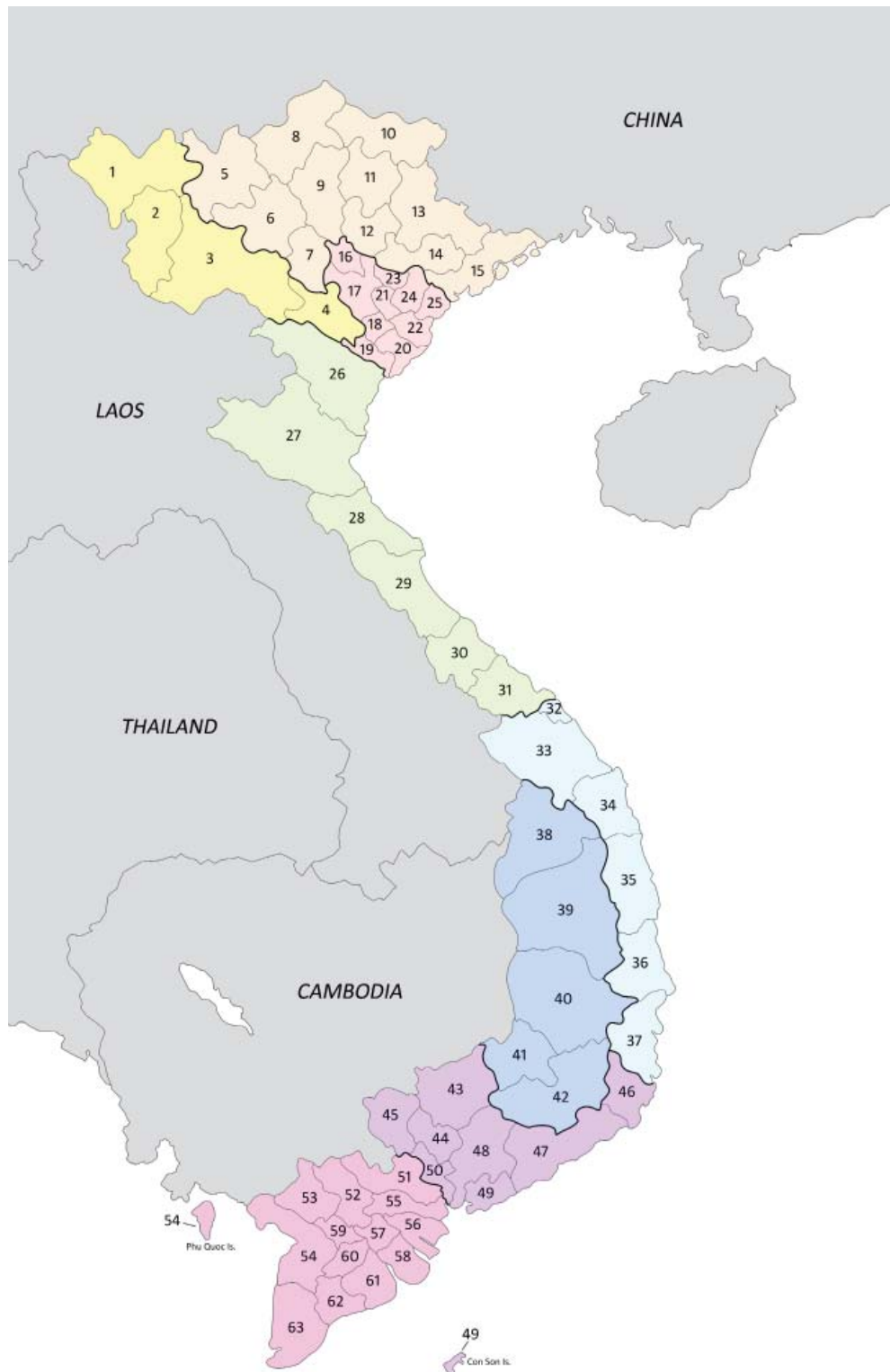
**Figure 194.** Table of the provincial records of the tiger beetles of Vietnam, species 121 to 150.

		Regions and Provinces of Vietnam		species		Nr.

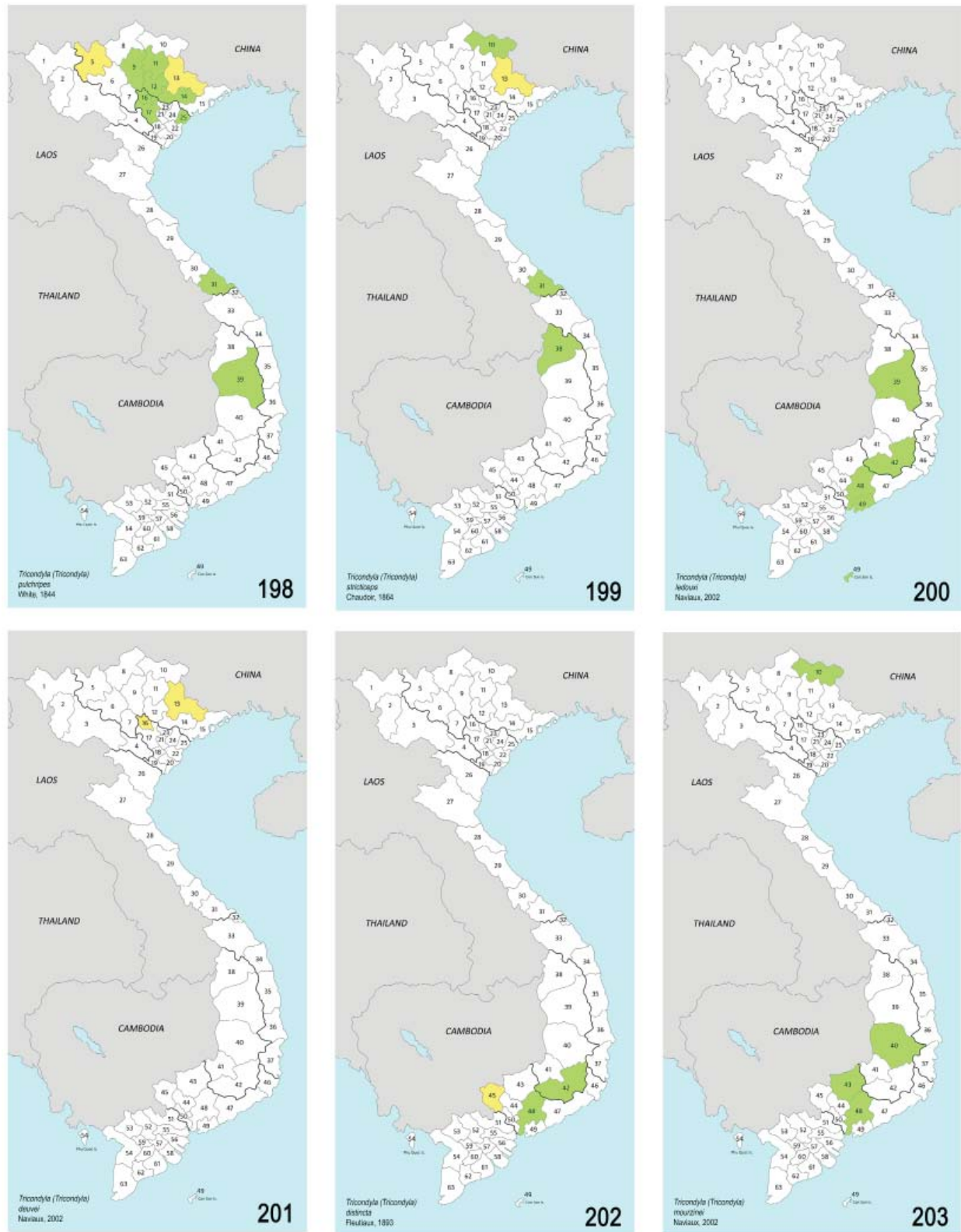


**Figure 196.** Similarities between tiger beetle faunas of different regions of Vietnam (UPGMA linkage method, Jaccard's coefficient).

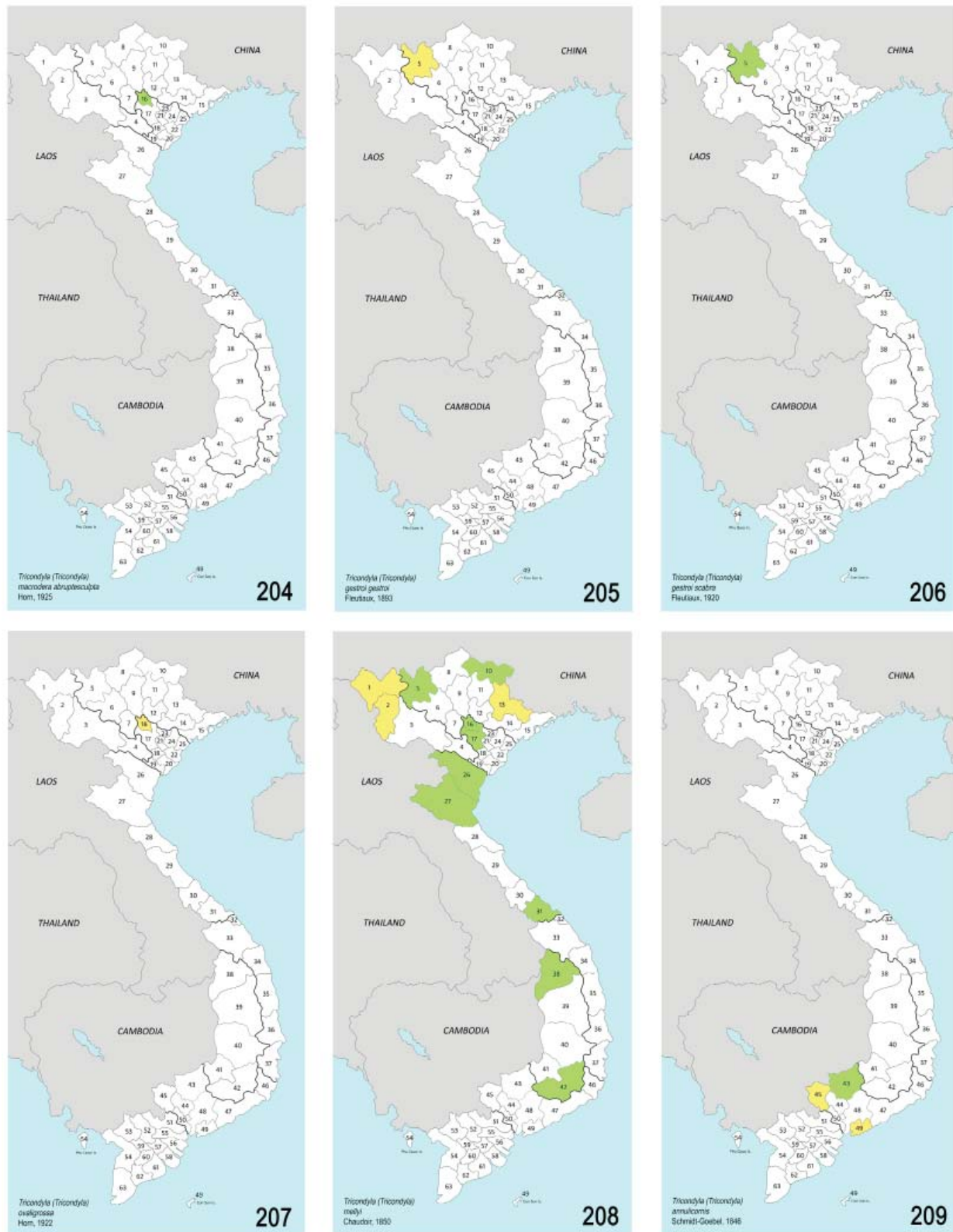




**Figure 197.** Map of the provinces of Vietnam. The tiger beetle distribution in the different provinces of Vietnam is reported as a map for each species. The colors used in the maps have the following meanings: green = provinces of new records, or of published data confirmed by new records; yellow = provinces of published data only, without new records. For six species it was not possible to make a distribution map, because the available collection data, which are only published data, were either ambiguous or doubtful.: *Neocollyris* (*Pachycollyris*) *nitida* Naviaux, 1995, *Collyris mnischechii* Chaudoir, 1864, *Prothyma* (*Paraprothyma*) *schmidtgoebeli* Horn, 1895, *Prothyma* (*Genoprothyma*) *annamica* Deuve, 2002, *Calochroa elegantula* (Dokhtouroff, 1882) and *Calomera brevipilosa brevipilosa* (Horn, 1908).



**Figures 198-203.** Distribution maps. **198)** *Tricondyla (Tricondyla) pulchripes* White, 1844. **199)** *Tricondyla (Tricondyla) stricticeps* Chaudoir, 1864. **200)** *Tricondyla (Tricondyla) ledouxi* Naviaux, 2002. **201)** *Tricondyla (Tricondyla) deveui* Naviaux, 2002. **202)** *Tricondyla (Tricondyla) distincta* Fleutiaux, 1893. **203)** *Tricondyla (Tricondyla) mourzinei* Naviaux, 2002.



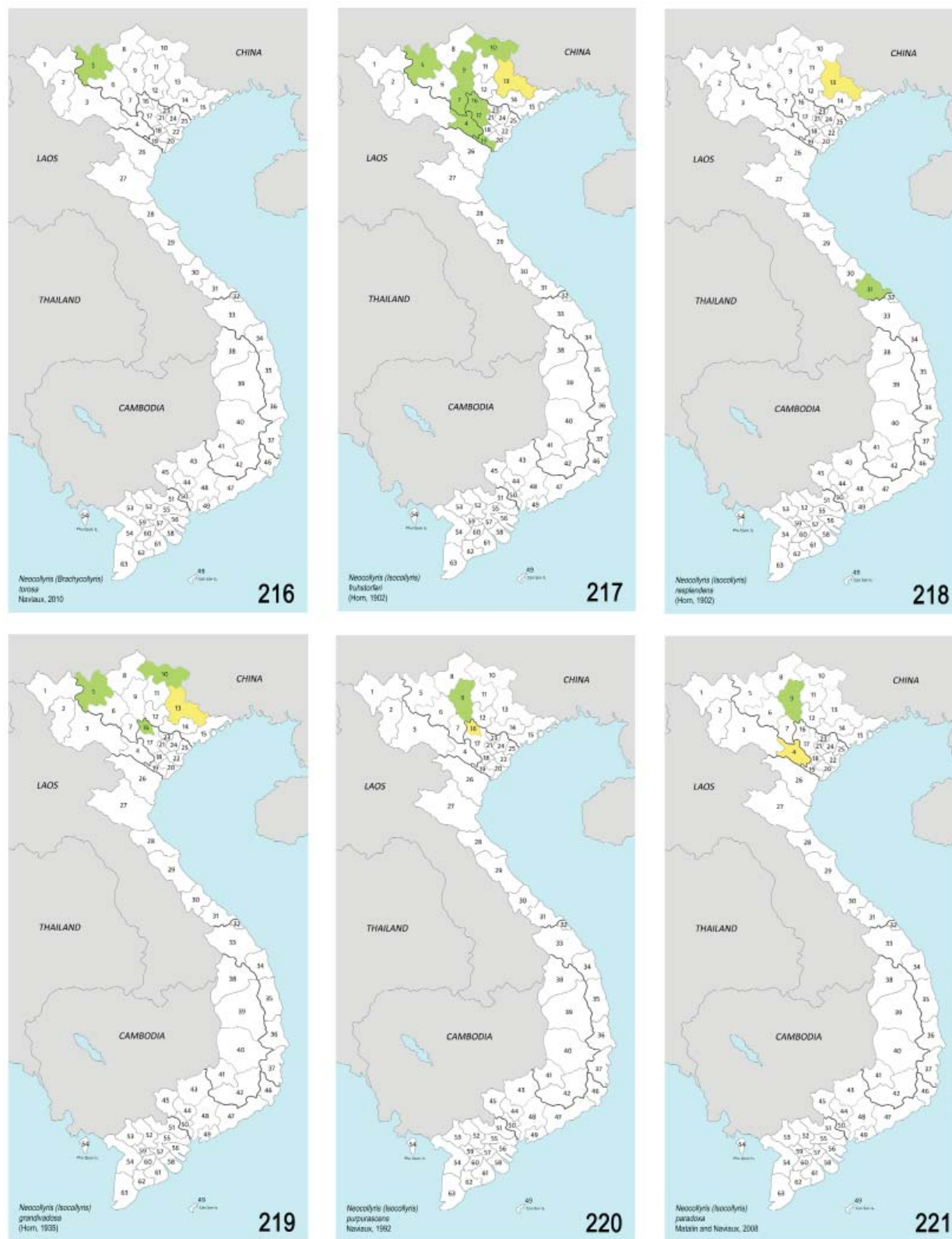
**Figures 204-209.** Distribution maps. **204)** *Tricondyla (Tricondyla) macrodera abruptesculpta* Horn, 1925. **205)** *Tricondyla (Tricondyla) gestroi gestroi* Fleutiaux, 1893. **206)** *Tricondyla (Tricondyla) gestroi scabra* Fleutiaux, 1920. **207)** *Tricondyla (Tricondyla) ovaligrossa* Horn, 1922. **208)** *Tricondyla (Tricondyla) mellyi* Chaudoir, 1850. **209)** *Tricondyla (Tricondyla) annulicornis* Schmidt-Goebel, 1846.





**Figures 210-215.** Distribution maps. **210)** *Tricondyla (Tricondyla) proxima* Fleutiaux, 1893. **211)** *Protocollyris festiva* Naviaux, 2008. **212)** *Protocollyris grossepunctata* (Horn, 1935). **213)** *Protocollyris annamensis* Naviaux, 1996. **214)** *Neocollyris (Brachycollyris) purpureomaculata borea* Naviaux, 1994. **215)** *Neocollyris (Brachycollyris) brevis* Naviaux, 1994.

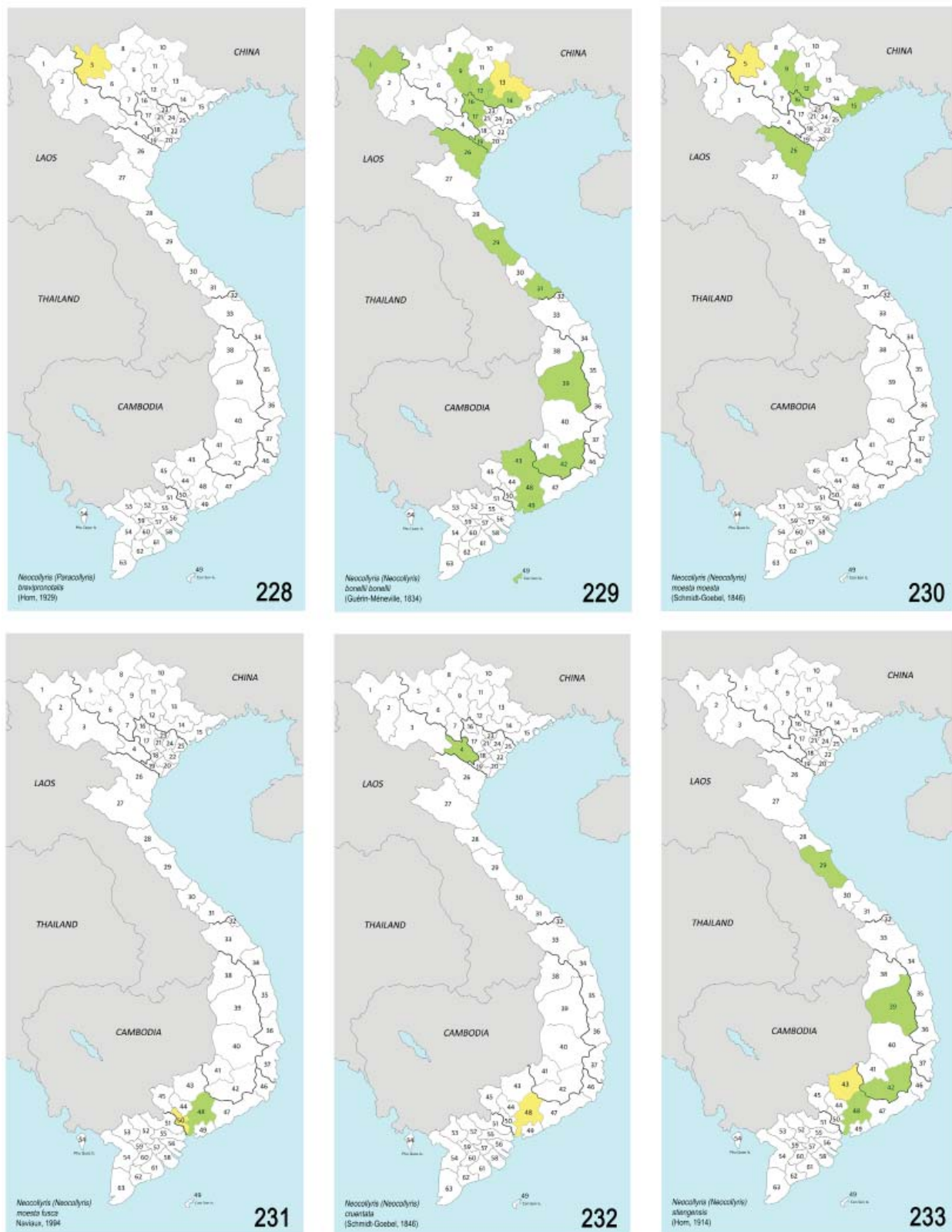




**Figures 216-221.** Distribution maps. **216)** *Neocollyris (Brachycollyris) torosa* Naviaux, 2010. **217)** *Neocollyris (Isocollyris) fruhstorferi* (Horn, 1902). **218)** *Neocollyris (Isocollyris) resplendens* (Horn, 1902). **219)** *Neocollyris (Isocollyris) grandivadosa* (Horn, 1935). **220)** *Neocollyris (Isocollyris) purpurascens* Naviaux, 1992. **221)** *Neocollyris (Isocollyris) paradoxa* Matalin and Naviaux, 2008.

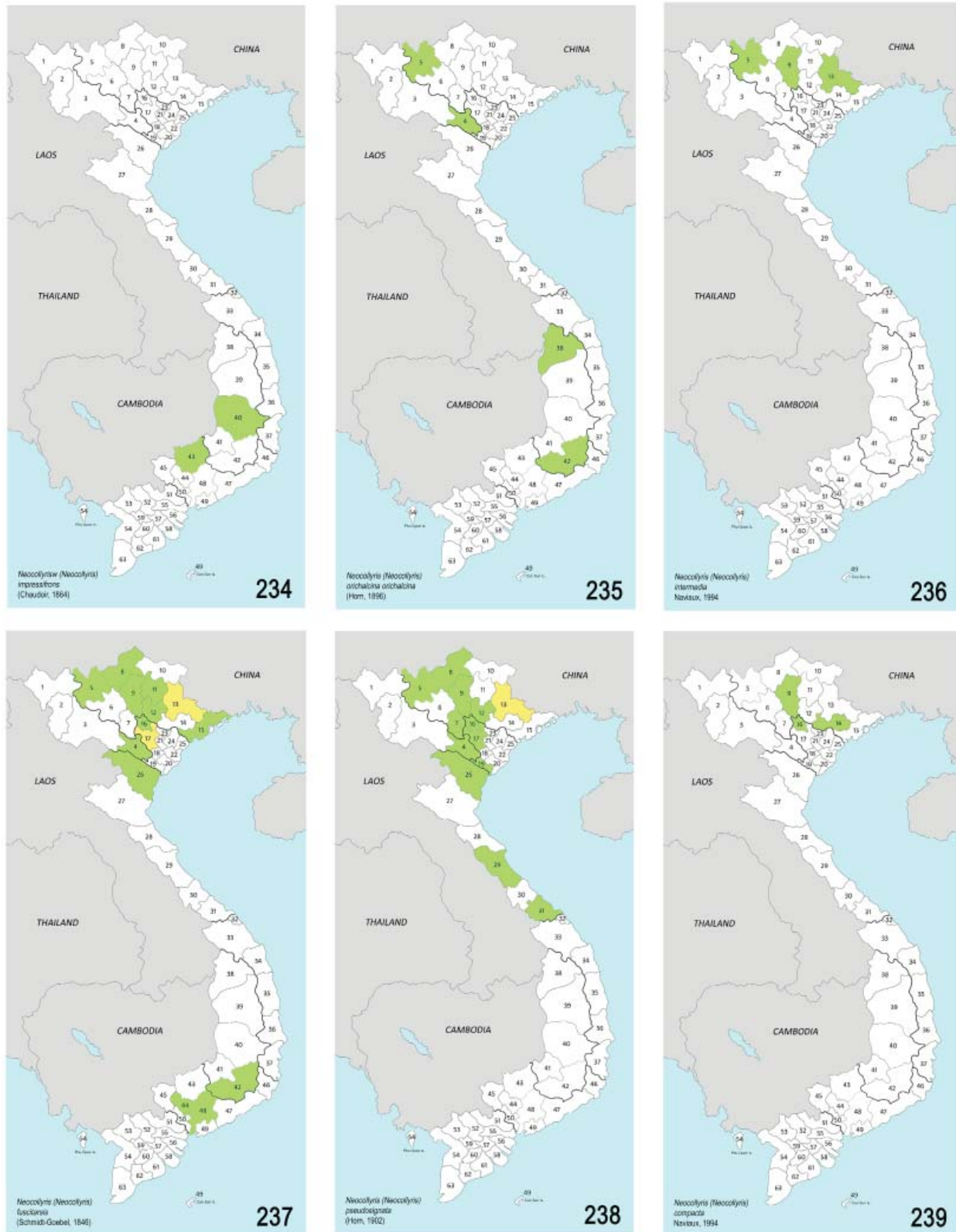


**Figures 222-227.** Distribution maps. **222)** *Neocollyris (Isocollyris) convergentefrontalis* (Horn, 1923). **223)** *Neocollyris (Isocollyris) apiceflava* Dheurle, 2017. **224)** *Neocollyris (Isocollyris) auripennis* (Horn, 1902). **225)** *Neocollyris (Isocollyris) erichwernerii* Naviaux and Schüle, 2008. **226)** *Neocollyris (Isocollyris) moravecii* Naviaux, 2004. **227)** *Neocollyris (Isocollyris) modica* Naviaux, 1994.



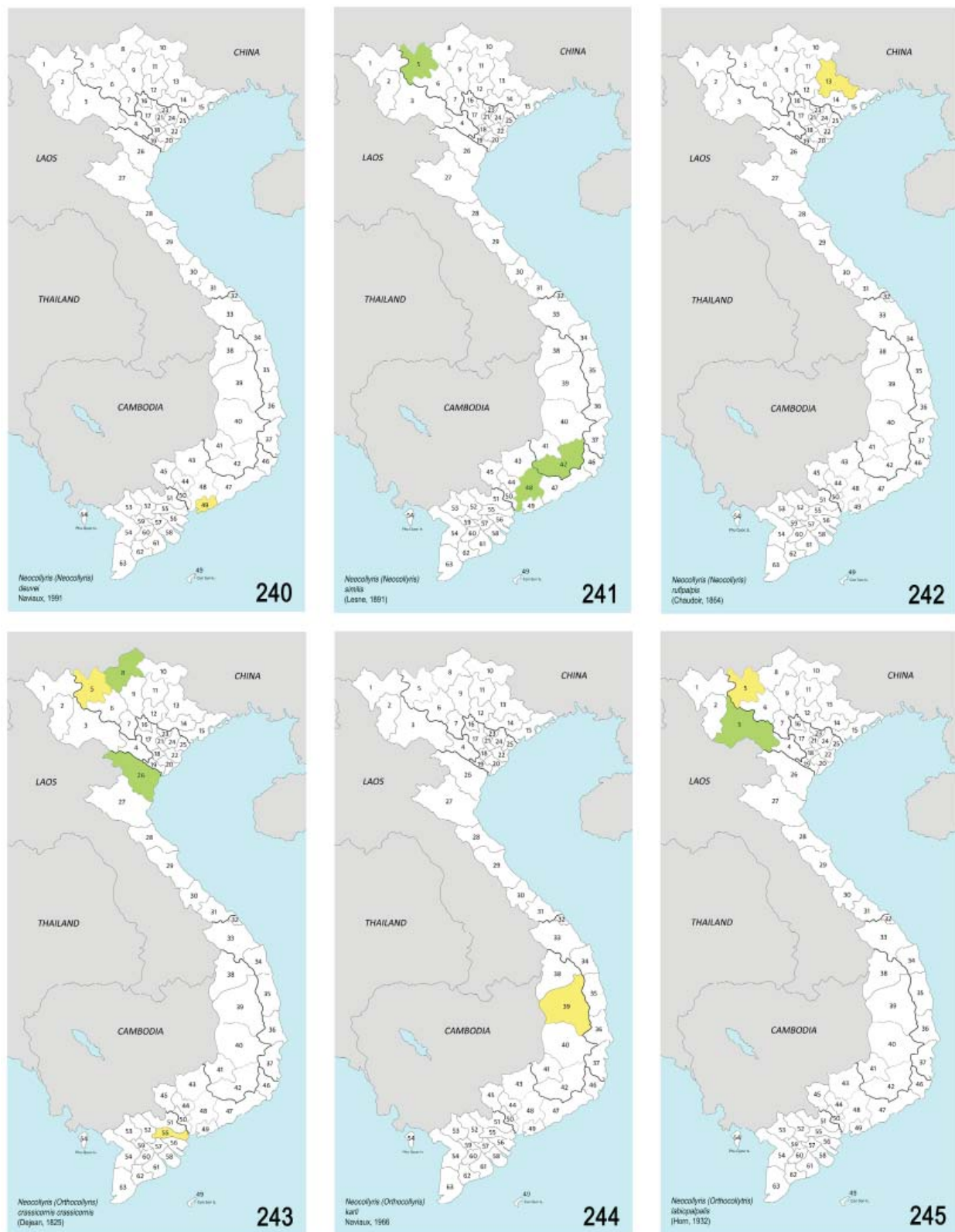
**Figures 228-233.** Distribution maps. **228** *Neocollyris (Paracollyris) brevipronotalis* (Horn, 1929). **229** *Neocollyris (Neocollyris) bonelli bonelli* (Guérin-Méneville, 1834). **230** *Neocollyris (Neocollyris) moesta moesta* (Schmidt-Goebel, 1846). **231** *Neocollyris (Neocollyris) moesta fusca* Naviaux, 1994. **232** *Neocollyris (Neocollyris) cruentata* (Schmidt-Goebel, 1846). **233** *Neocollyris (Neocollyris) stiengensis* (Horn, 1914).



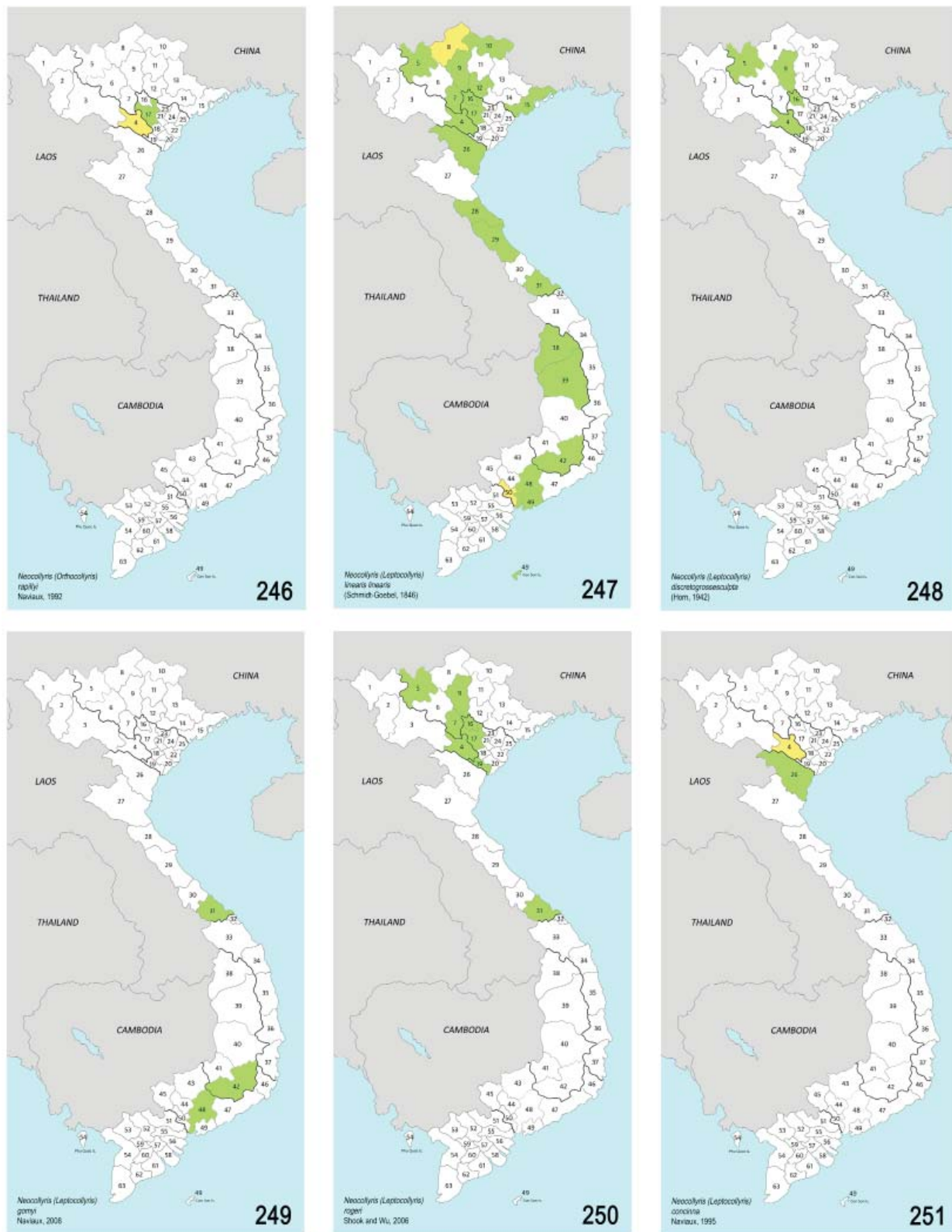


**Figures 234-239.** Distribution maps. **234)** *Neocollyris (Neocollyris) impressifrons* (Chaudoir, 1864). **235)** *Neocollyris (Neocollyris) orichalcina orichalcina* (Horn, 1896). **236)** *Neocollyris (Neocollyris) intermedia* Naviaux, 1994. **237)** *Neocollyris (Neocollyris) fuscitarsis* (Schmidt-Goebel, 1846). **238)** *Neocollyris (Neocollyris) pseudosignata* (Horn, 1902). **239)** *Neocollyris (Neocollyris) compacta* Naviaux, 1994.

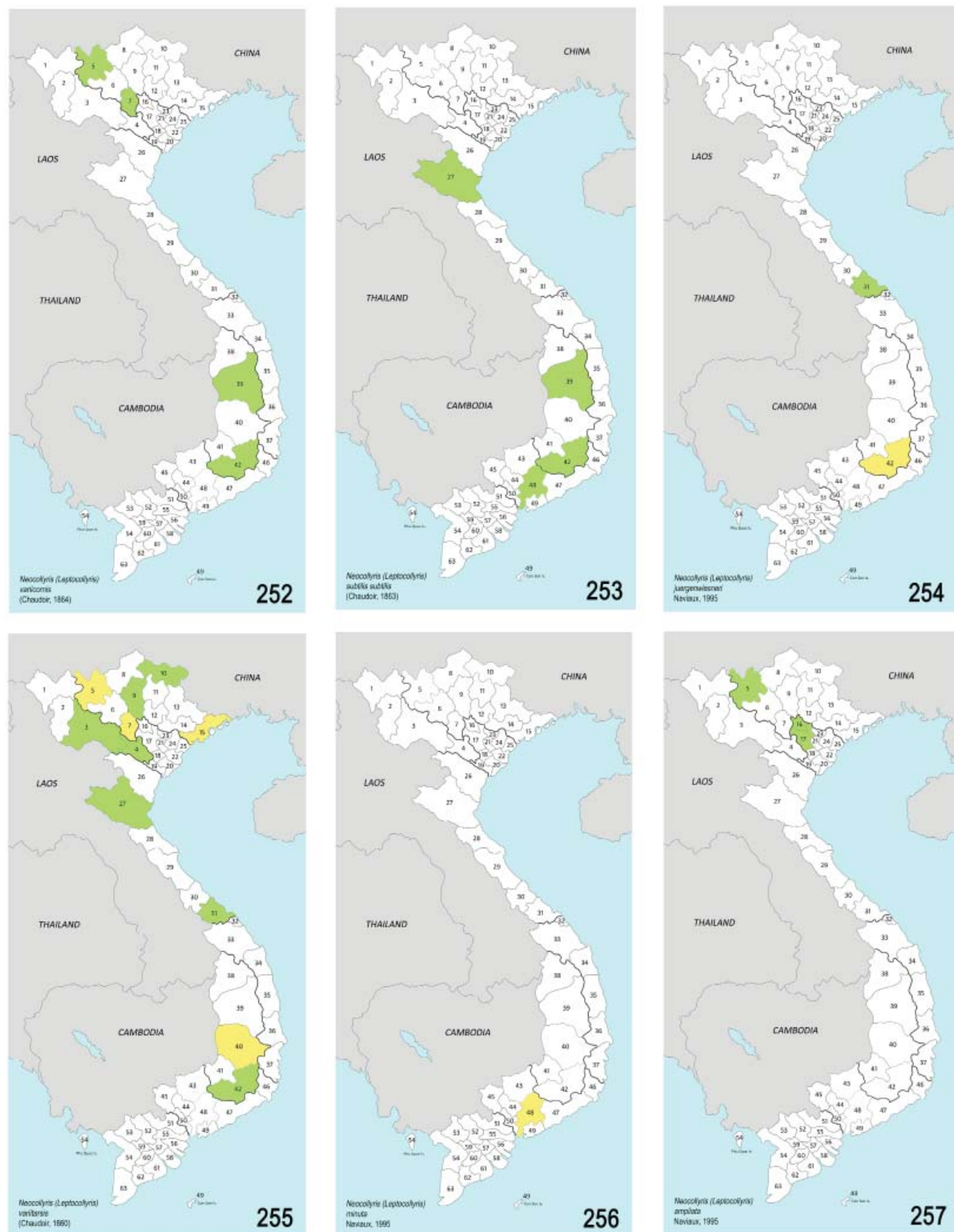




**Figures 240-245.** Distribution maps. **240)** *Neocollyris (Neocollyris) deuvei* Naviaux, 1991. **241)** *Neocollyris (Neocollyris) similis* (Lesne, 1891). **242)** *Neocollyris (Neocollyris) rufipalpis* (Chaudoir, 1864). **243)** *Neocollyris (Orthocollyris) crassicornis crassicornis* (Dejean, 1825). **244)** *Neocollyris (Orthocollyris) karli* Naviaux, 1996. **245)** *Neocollyris (Orthocollyris) labiopalpis* (Horn, 1932).

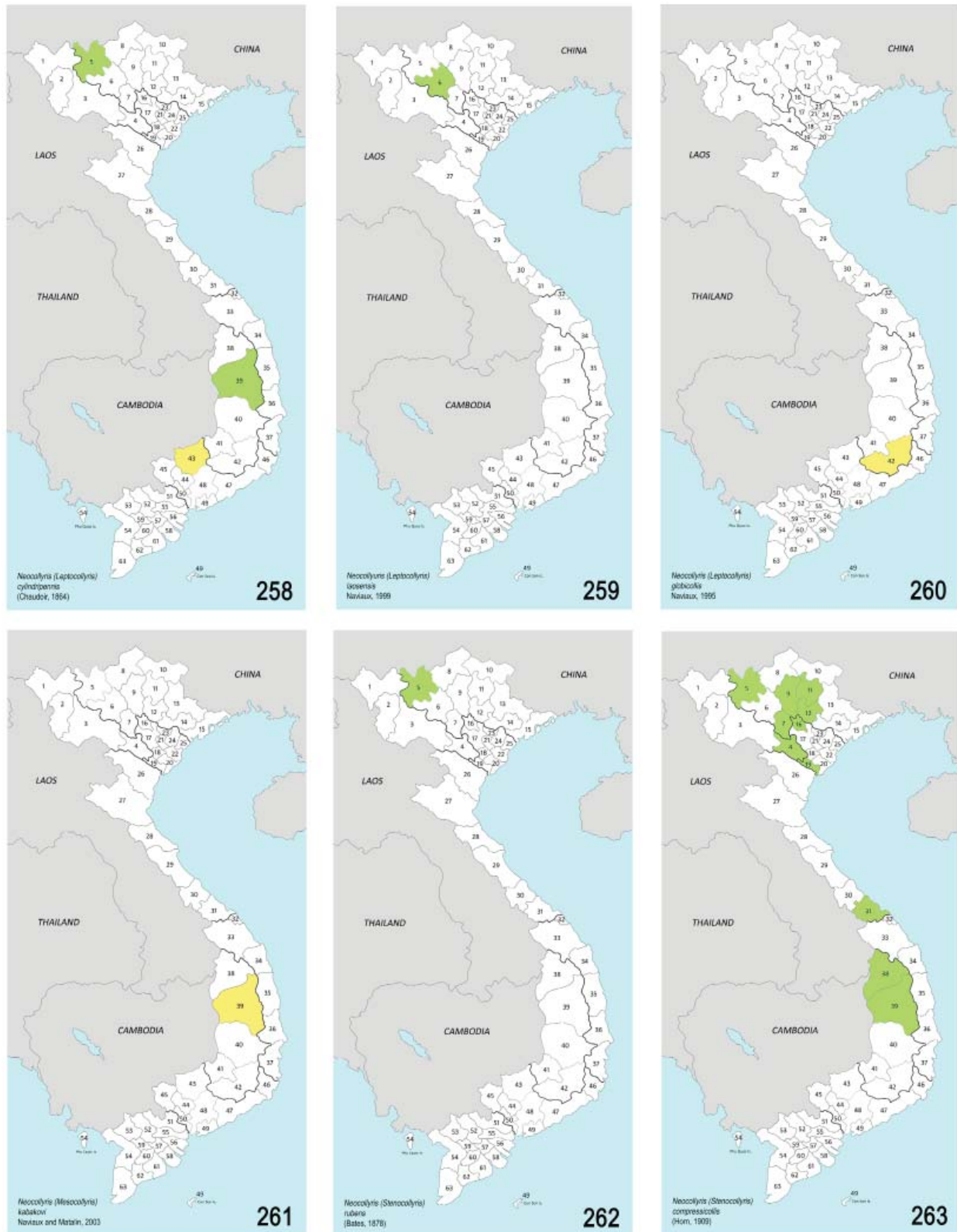


**Figures 246-251.** Distribution maps. **246)** *Neocollyris (Orthocollyris) rapillyi* Naviaux, 1992. **247)** *Neocollyris (Leptocollyris) linearis linearis* (Schmidt-Göebel, 1846). **248)** *Neocollyris (Leptocollyris) discretegrossesculpta* (Horn, 1942). **249)** *Neocollyris (Leptocollyris) gomyi* Naviaux, 2008. **250)** *Neocollyris (Leptocollyris) rogeri* Shook and Wu, 2006. **251)** *Neocollyris (Leptocollyris) concinna* Naviaux, 1995.



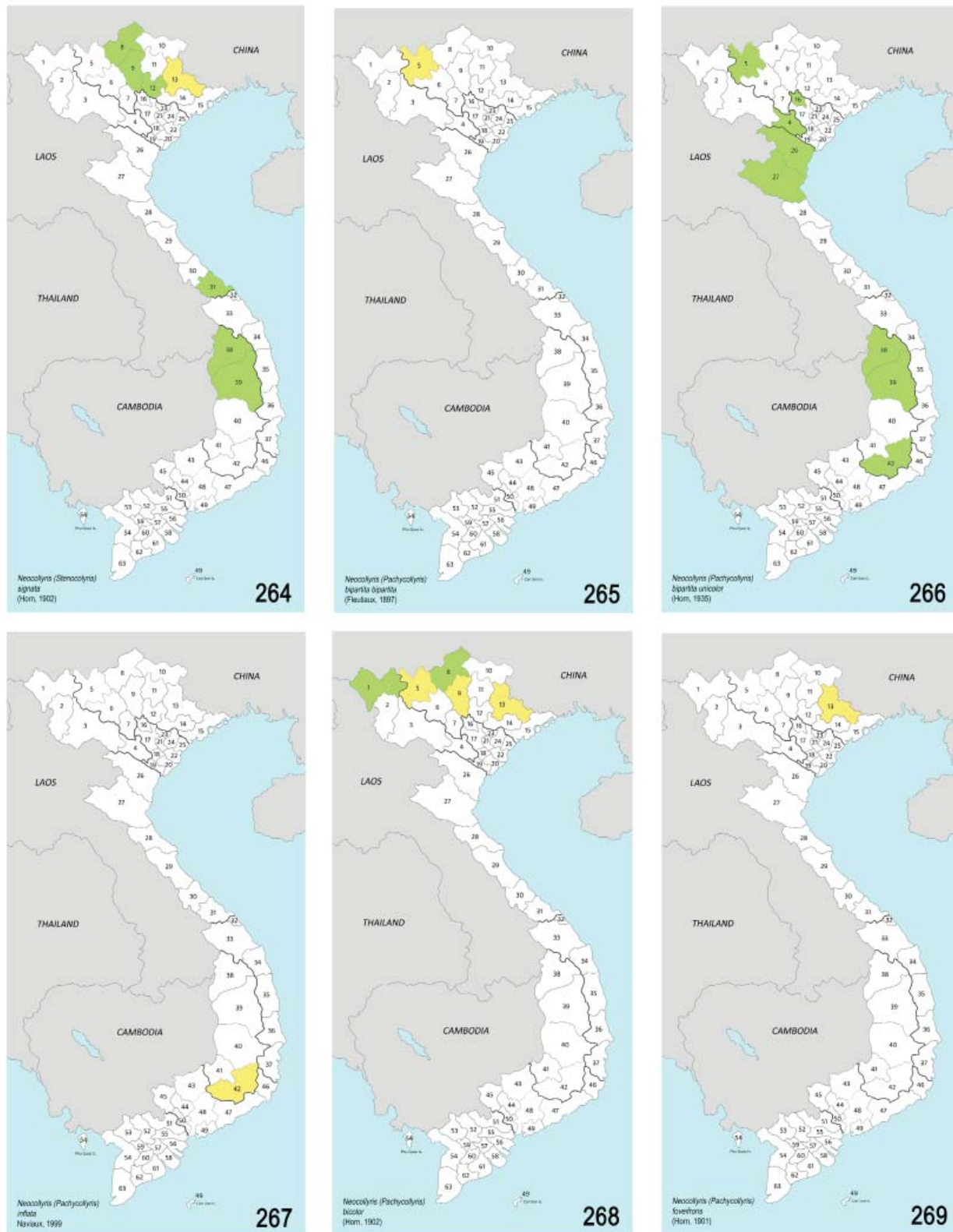
**Figures 252-257.** Distribution maps. **252)** *Neocollyris (Leptocollyris) variicornis* (Chaudoir, 1864). **253)** *Neocollyris (Leptocollyris) subtilis subtilis* (Chaudoir, 1863). **254)** *Neocollyris (Leptocollyris) juergenuiesneri* Naviaux, 1995. **255)** *Neocollyris (Leptocollyris) variitarsis* (Chaudoir, 1860). **256)** *Neocollyris (Leptocollyris) minuta* Naviaux, 1995. **257)** *Neocollyris (Leptocollyris) ampliata* Naviaux, 1995.



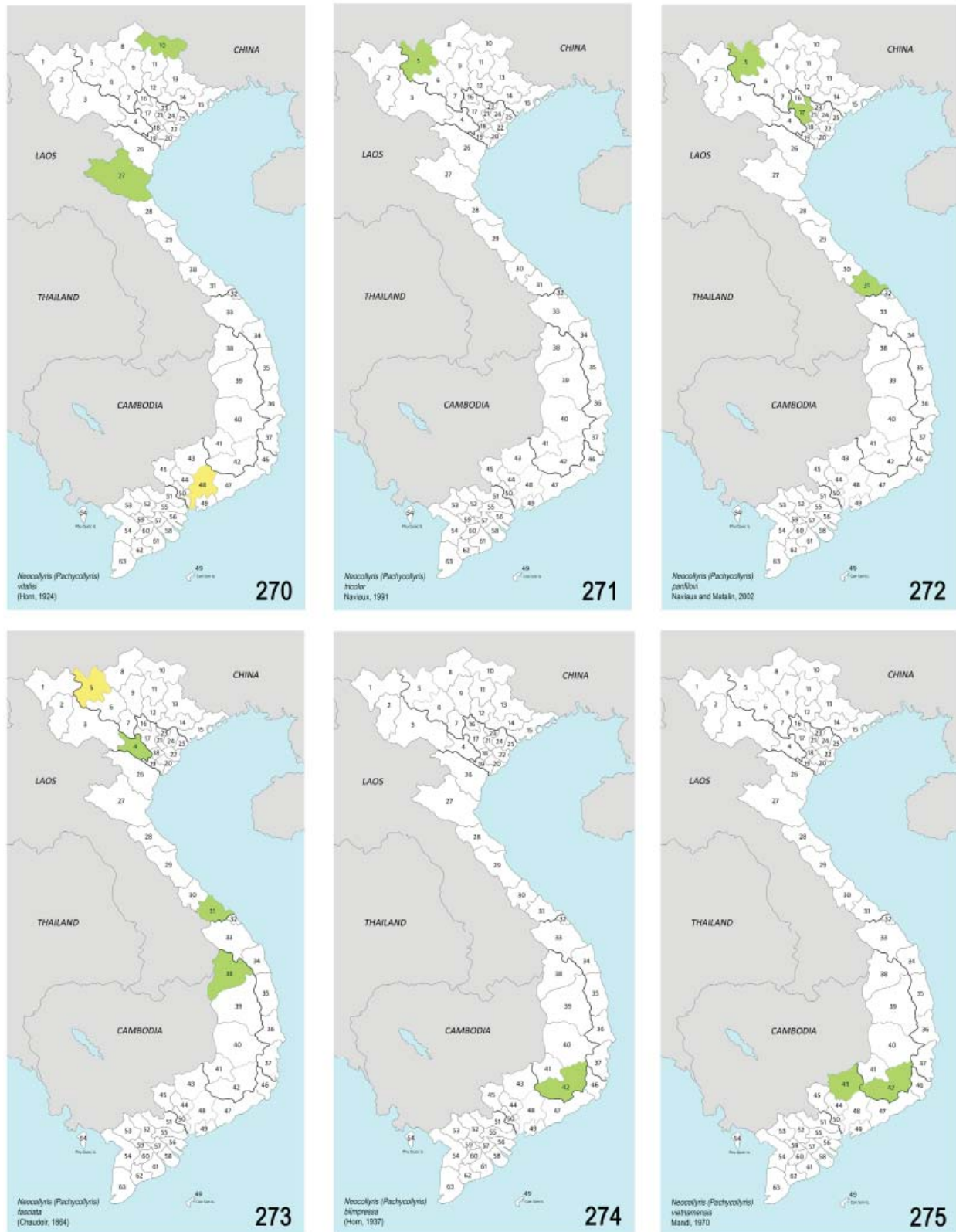


**Figures 258-263.** Distribution maps. **258)** *Neocollyris (Leptocollyris) cylindripennis* (Chaudoir, 1864). **259)** *Neocollyris (Leptocollyris) laosensis* Naviaux, 1999. **260)** *Neocollyris (Leptocollyris) globicollis* Naviaux, 1995. **261)** *Neocollyris (Mesocollyris) kabakovi* Naviaux and Matalin, 2003. **262)** *Neocollyris (Stenocollyris) rubens* (Bates, 1878). **263)** *Neocollyris (Stenocollyris) compressicollis* (Horn, 1909).

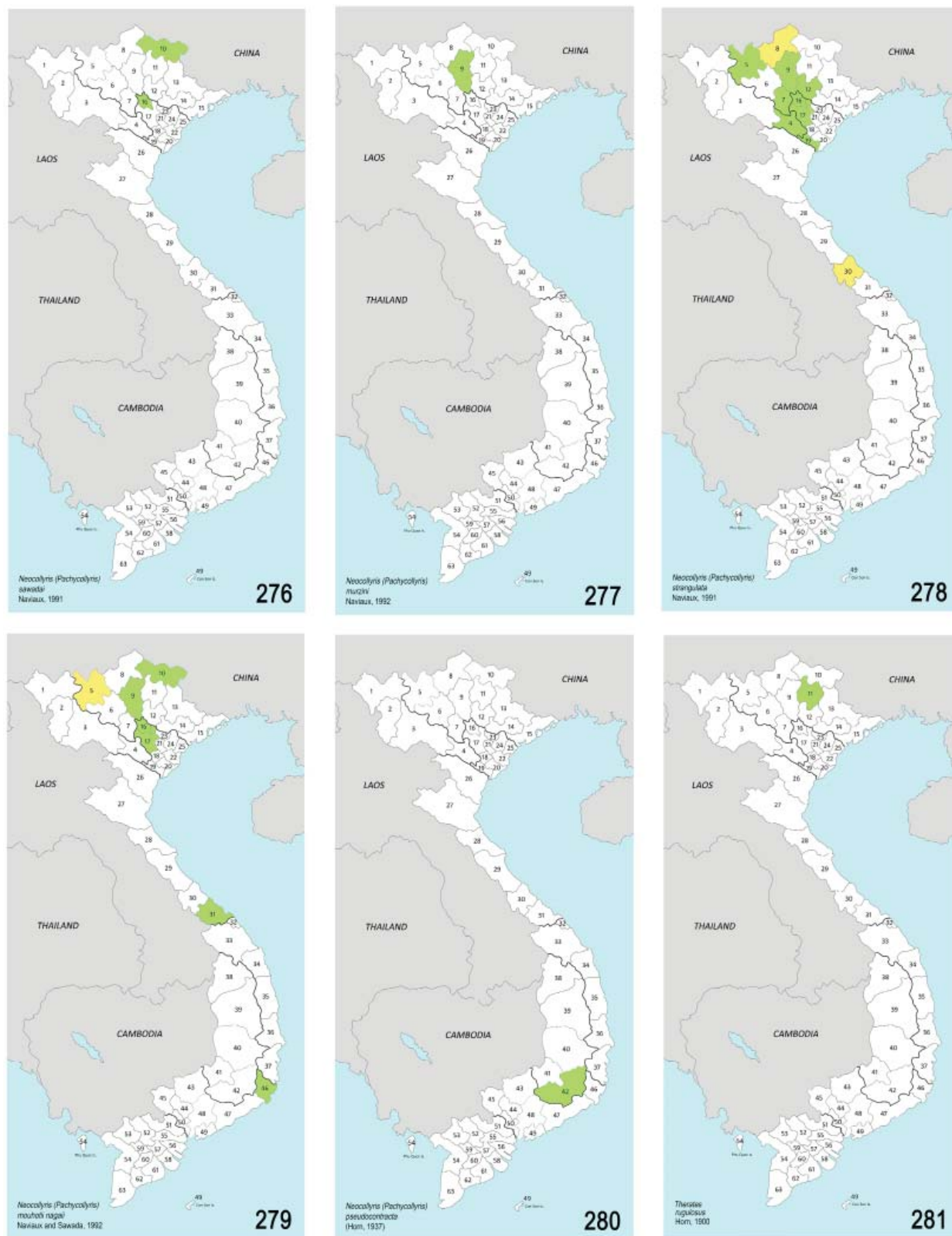




**Figures 264-269.** Distribution maps. **264)** *Neocollyris (Stenocollyris) signata* (Horn, 1902). **265)** *Neocollyris (Pachycollyris) bipartita bipartita* (Fleutiaux, 1897). **266)** *Neocollyris (Pachycollyris) bipartita unicolor* (Horn, 1935). **267)** *Neocollyris (Pachycollyris) inflata* Naviaux, 1999. **268)** *Neocollyris (Pachycollyris) bicolor* (Horn, 1902). **269)** *Neocollyris (Pachycollyris) foveifrons* (Horn, 1901).

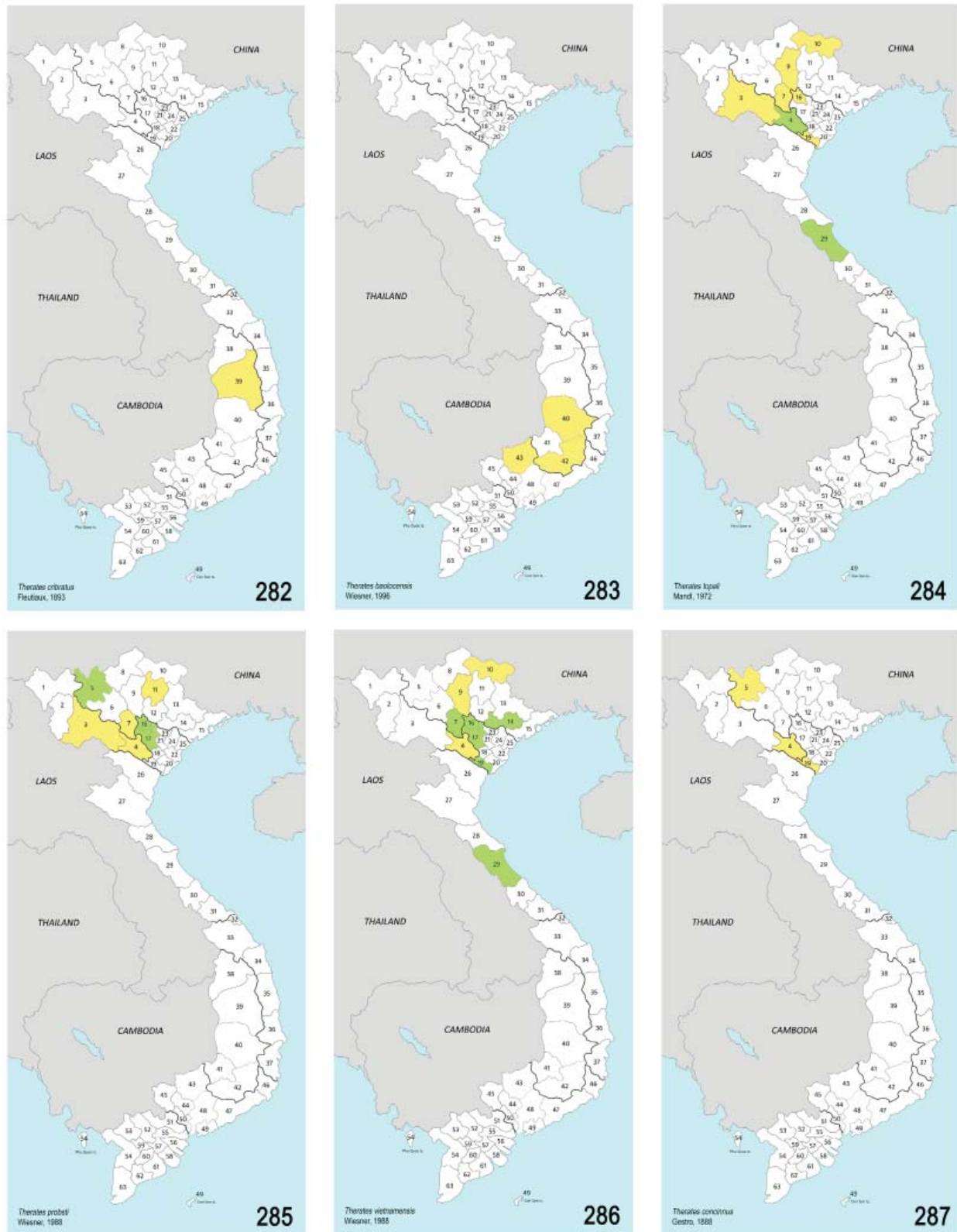


**Figures 270-275.** Distribution maps. **270)** *Neocollyris (Pachycollyris) vitalisi* (Horn, 1924). **271)** *Neocollyris (Pachycollyris) tricolor* Naviaux, 1991. **272)** *Neocollyris (Pachycollyris) panfilovi* Naviaux and Matalin, 2002. **273)** *Neocollyris (Pachycollyris) fasciata* (Chaudoir, 1864). **274)** *Neocollyris (Pachycollyris) biimpresca* (Horn, 1937). **275)** *Neocollyris (Pachycollyris) vietnamensis* Mandl, 1970.



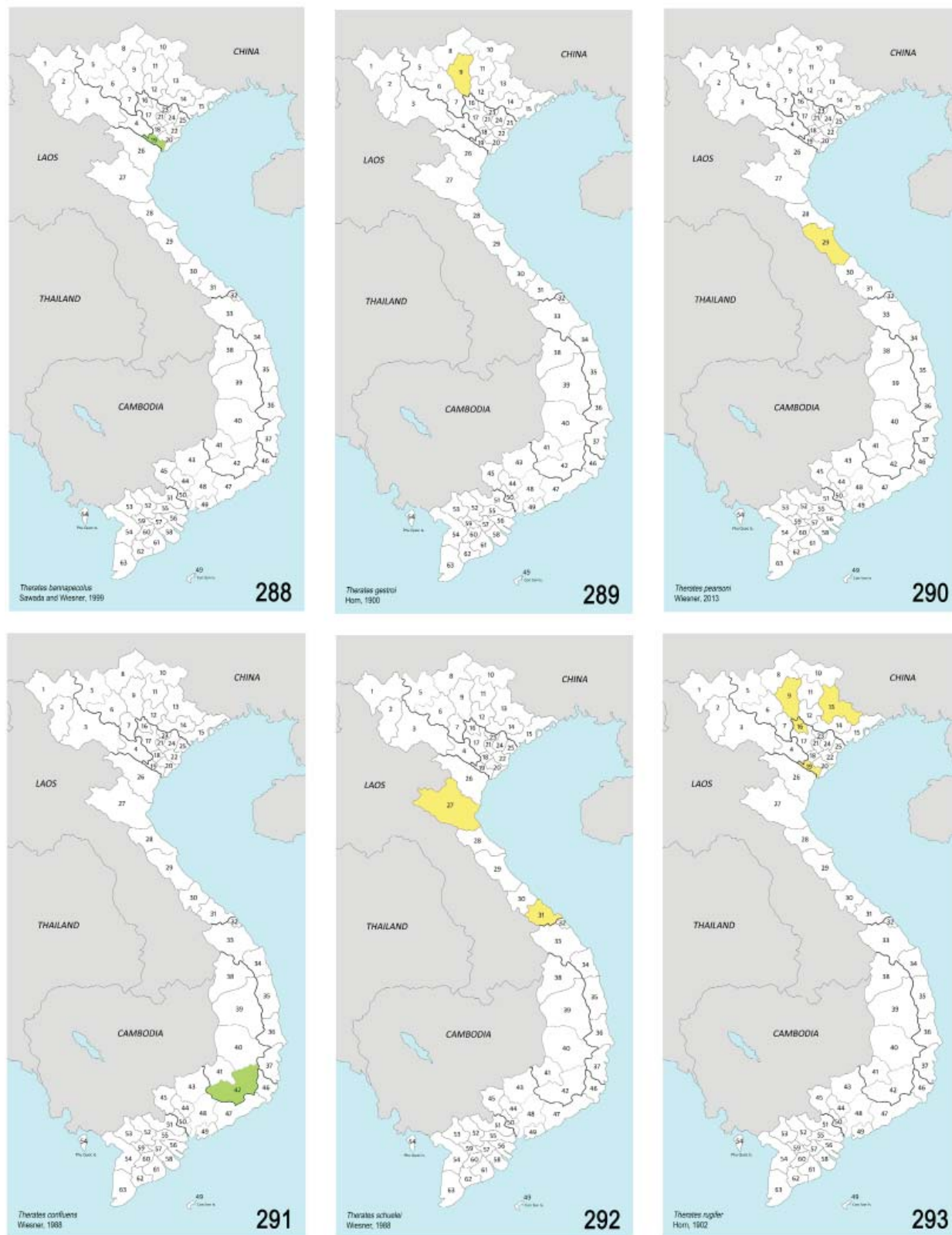
**Figures 276-281.** Distribution maps. **276)** *Neocollyris (Pachycollyris) sawadai* Naviaux, 1991. **277)** *Neocollyris (Pachycollyris) murzini* Naviaux, 1992. **278)** *Neocollyris (Pachycollyris) strangulata* Naviaux, 1991. **279)** *Neocollyris (Pachycollyris) mouhotii nagaii* Naviaux and Sawada, 1992. **280)** *Neocollyris (Pachycollyris) pseudocontracta* (Horn, 1937). **281)** *Therates rugulosus* Horn, 1900.



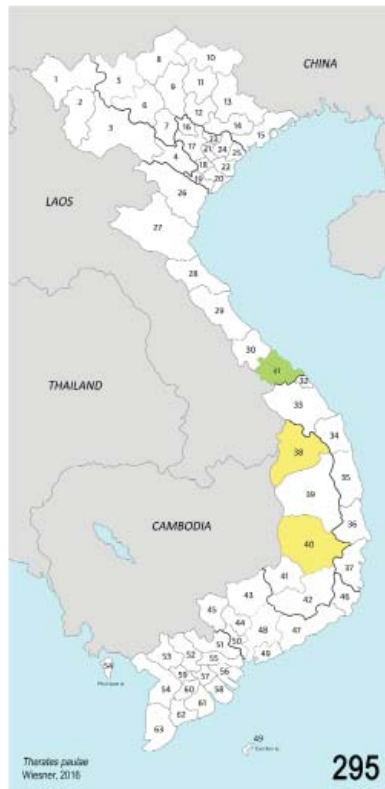


**Figures 282-287.** Distribution maps. 282) *Therates cribratus* Fleutiaux, 1893. 283) *Therates baolocensis* Wiesner, 1996. 284) *Therates topali* Mandl, 1972. 285) *Therates probsti* Wiesner, 1988. 286) *Therates vietnamensis* Wiesner, 1988. 287) *Therates concinnus* Gestro, 1888.

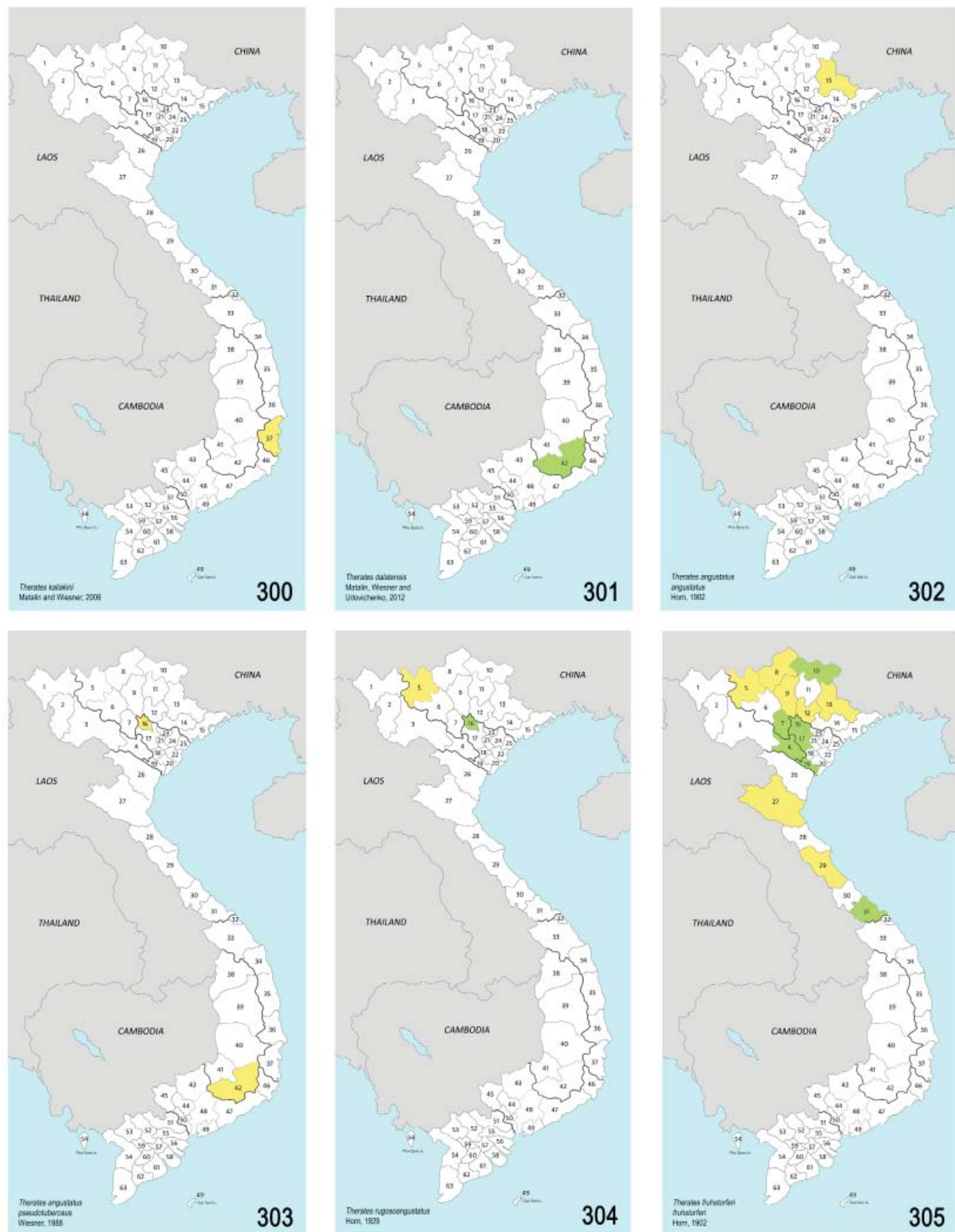




**Figures 288-293.** Distribution maps. **288)** *Therates bannapecolus* Sawada and Wiesner, 1999. **289)** *Therates gestroi* Horn, 1900. **290)** *Therates pearsoni* Wiesner, 2013. **291)** *Therates confluens* Wiesner, 1988. **292)** *Therates schuelei* Wiesner, 2013. **293)** *Therates rugifer* Horn, 1902.

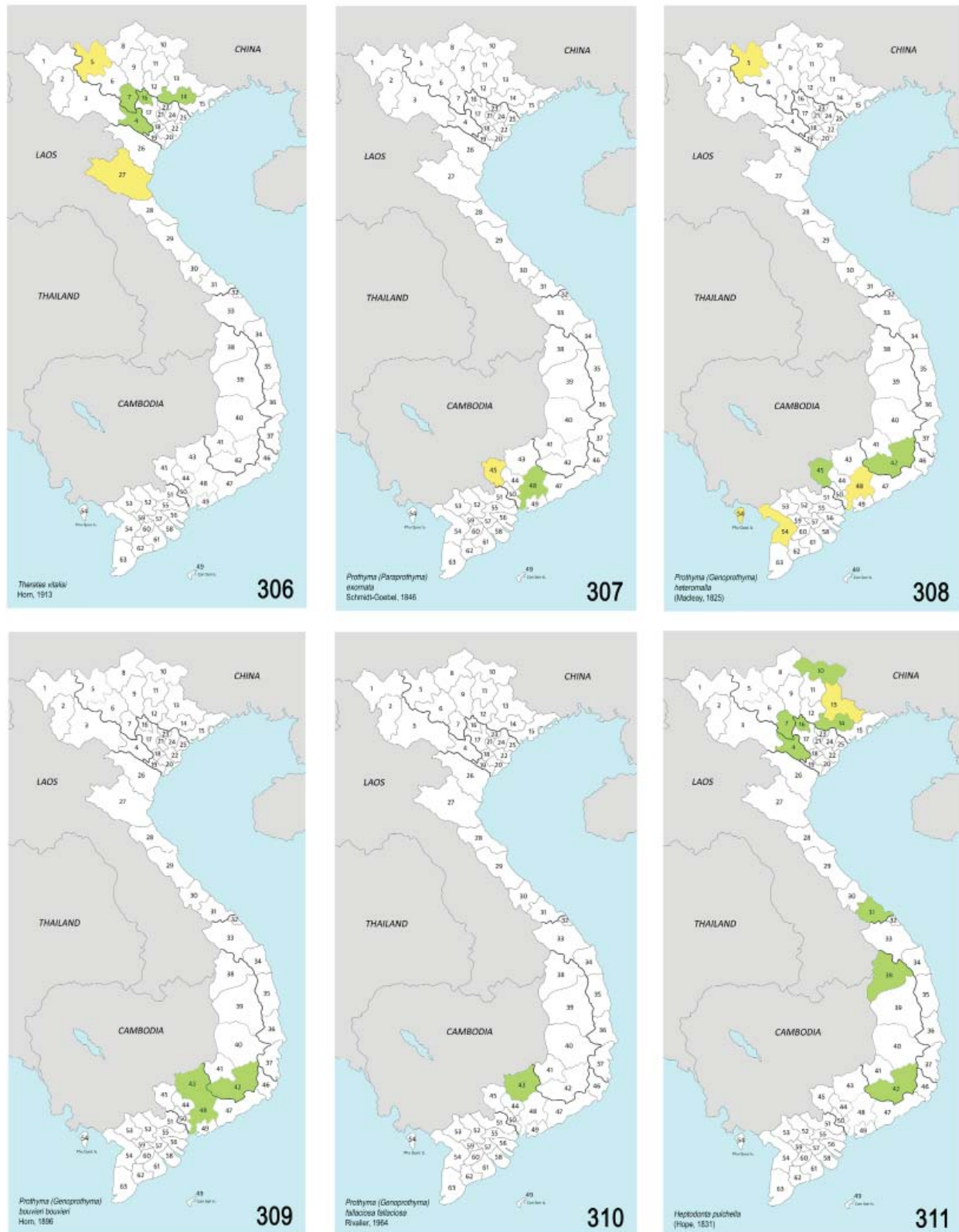


**Figures 294-299.** Distribution maps. **294)** *Therates aligii* Wiesner, 2016. **295)** *Therates paulae* Wiesner, 2016. **296)** *Therates tonkinensis* Horn, 1902. **297)** *Therates kubani* Wiesner, 1988. **298)** *Therates haucki* Moravec and Wiesner, 2001. **299)** *Therates clavicornis* Horn, 1902.



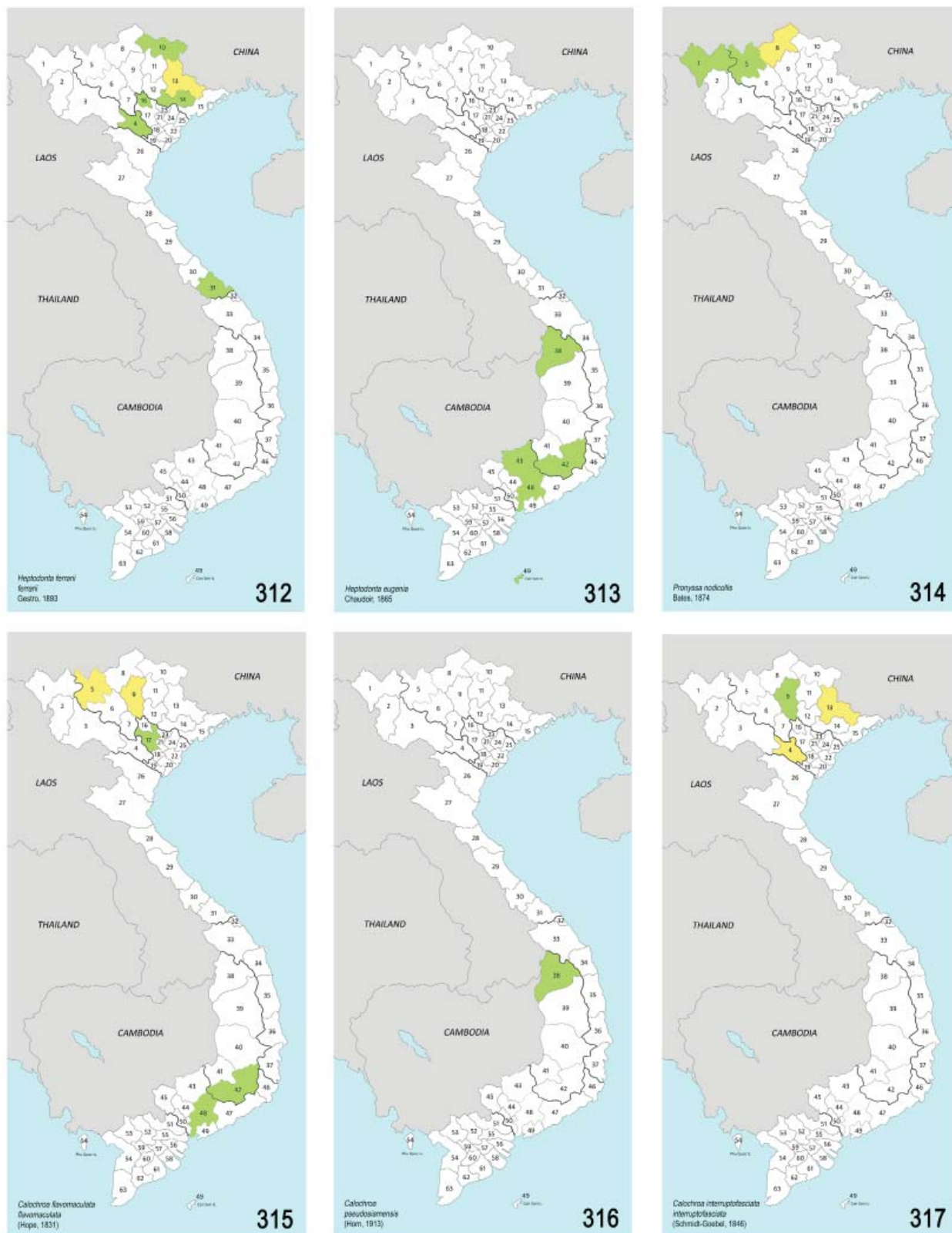
**Figures 300-305.** Distribution maps. **300)** *Therates kaliakini* Matalin and Wiesner, 2006. **301)** *Therates dalatensis* Matalin, Wiesner and Udovichenko, 2012. **302)** *Therates angustatus angustatus* Horn, 1902. **303)** *Therates angustatus pseudotuberosus* Wiesner, 1988. **304)** *Therates rugosoangustatus* Horn, 1929. **305)** *Therates fruhstorferi fruhstorferi* Horn, 1902.



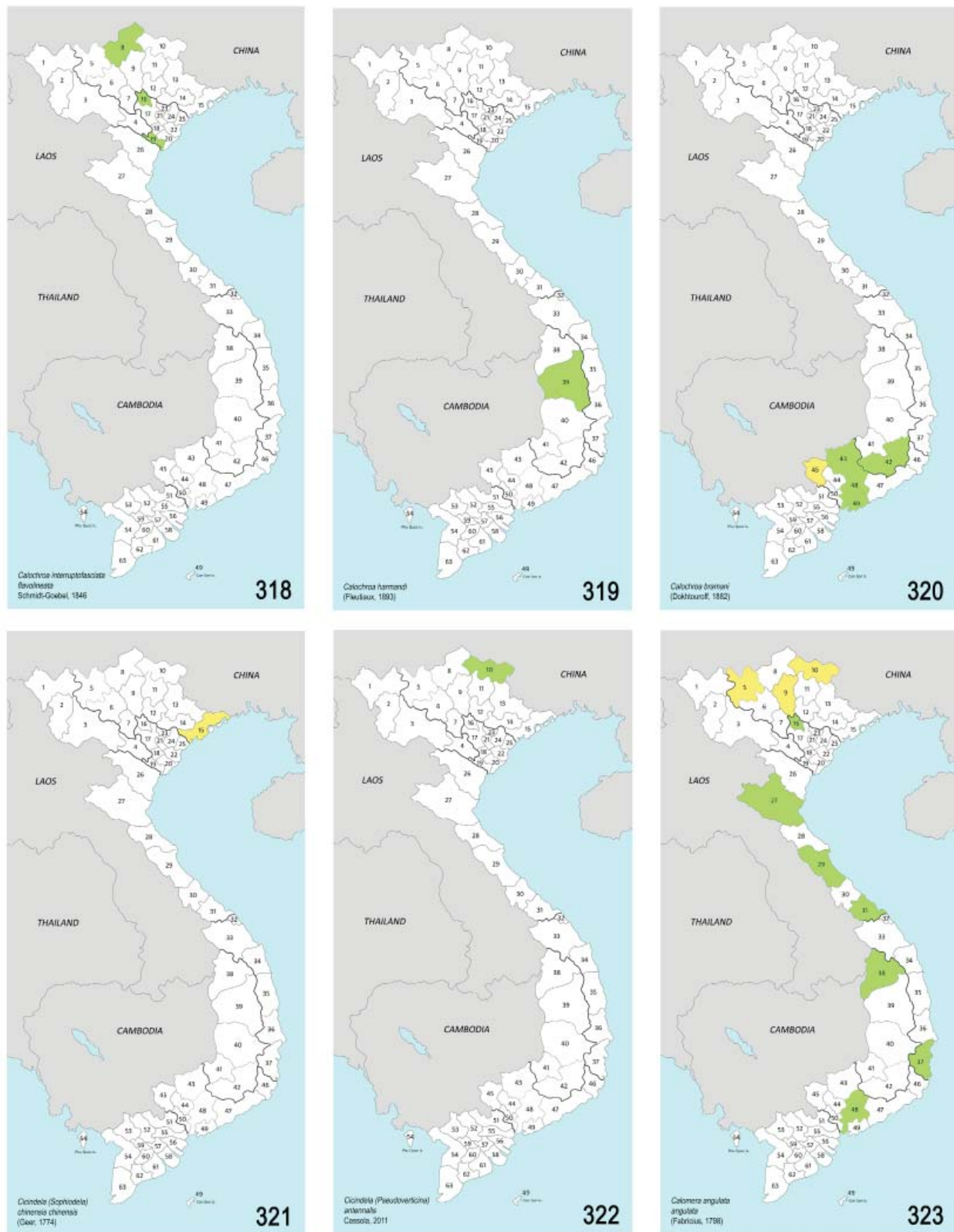


**Figures 306-311.** Distribution maps. **306)** *Therates vitalisi* Horn, 1913. **307)** *Prothyma (Paraprothyma) exornata* Schmidt-Goebel, 1846. **308)** *Prothyma (Genoprothyma) heteromalla* (Macleay, 1825). **309)** *Prothyma (Genoprothyma) bouvieri bouvieri* Horn, 1896. **310)** *Prothyma (Genoprothyma) fallaciosa fallaciosa* Rivalier, 1964. **311)** *Heptodonta pulchella* (Hope, 1831).

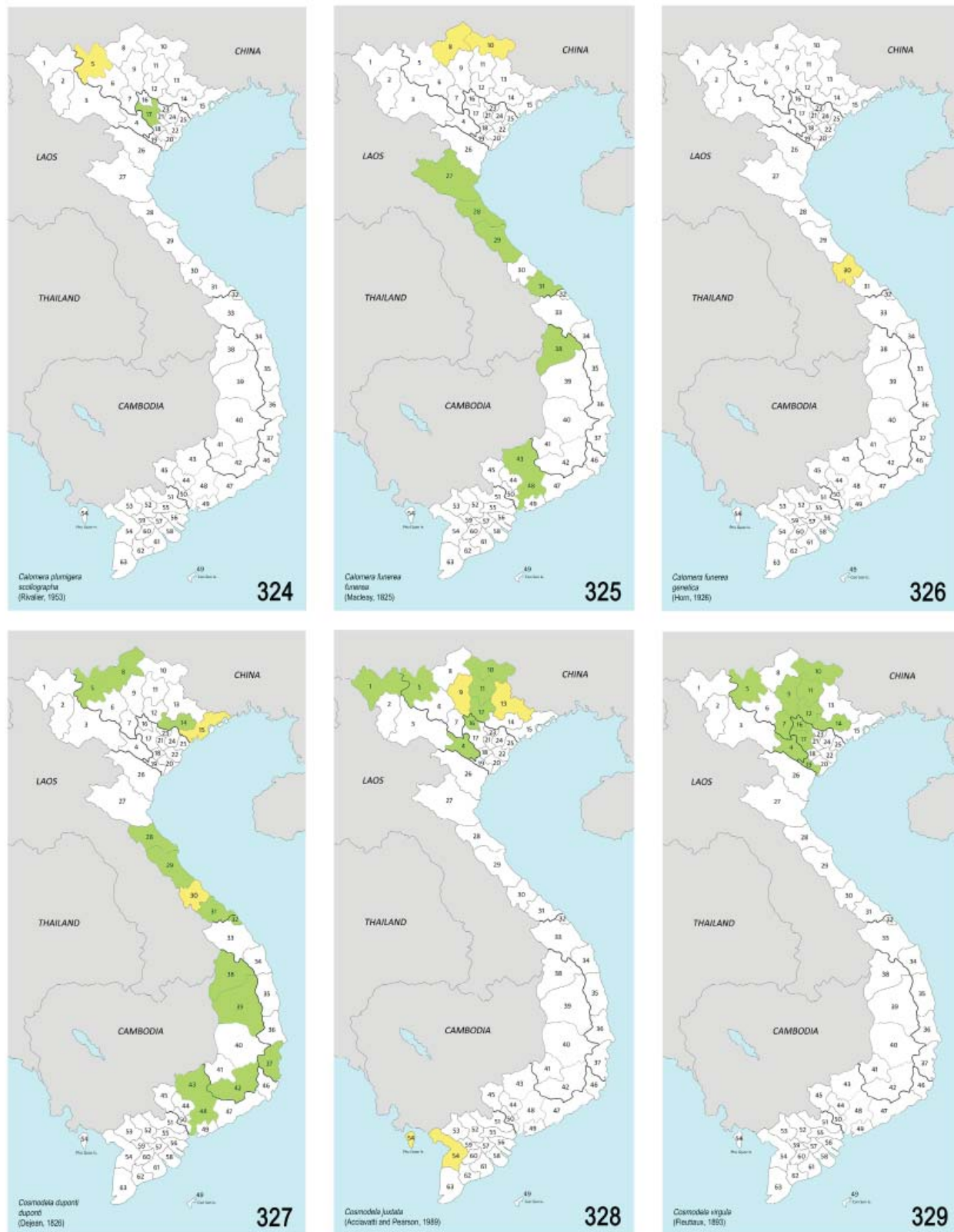




**Figures 312-317.** Distribution maps. **312)** *Heptodonta ferrarii ferrarii* Gestro, 1893. **313)** *Heptodonta eugenia* Chaudoir, 1865. **314)** *Pronysa nodicollis* Bates, 1874. **315)** *Calochroa flavomaculata flavomaculata* (Hope, 1831). **316)** *Calochroa pseudosiamensis* (Horn, 1913). **317)** *Calochroa interruptofasciata interruptofasciata* (Schmidt-Göebel, 1846).

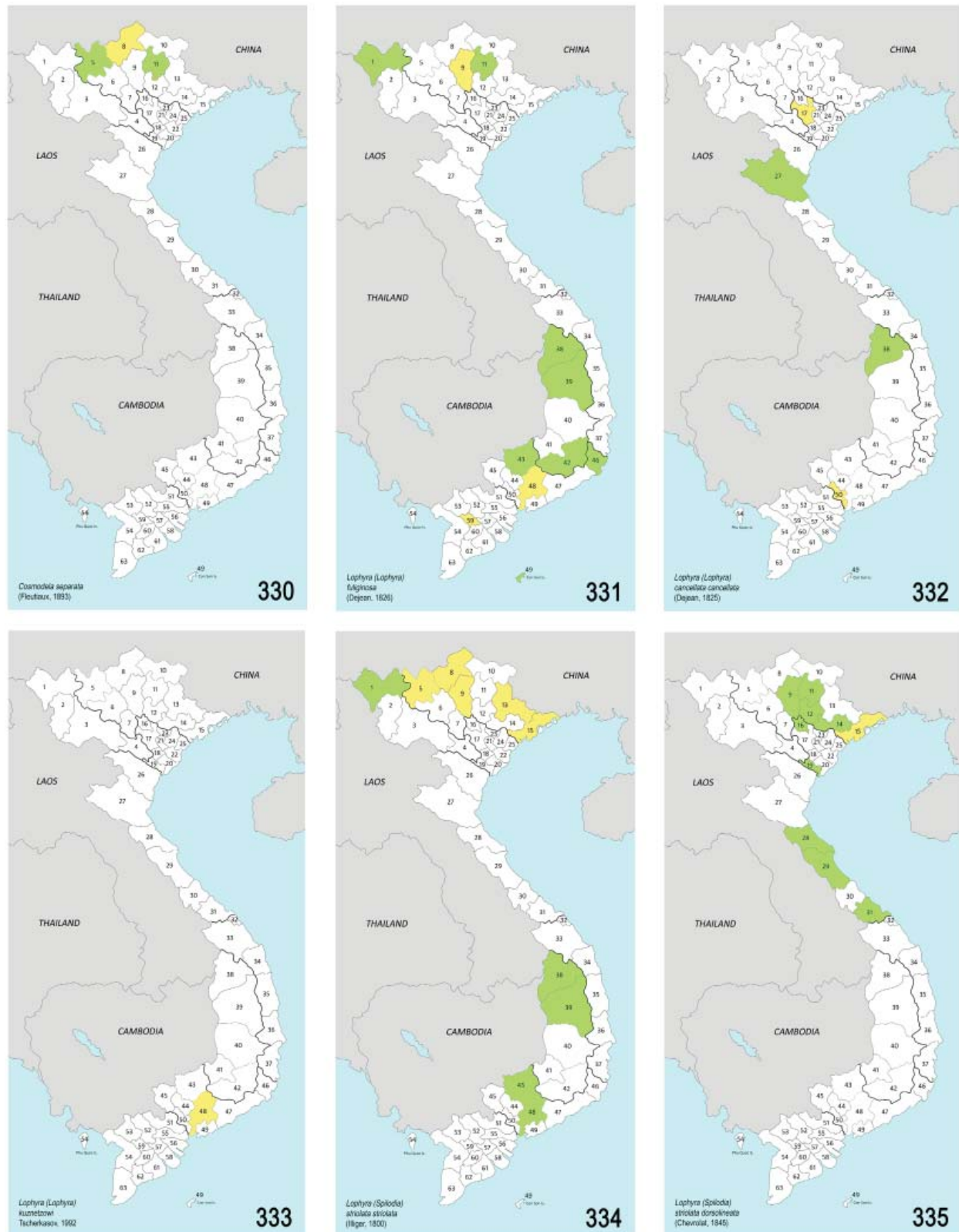


**Figures 318-323.** Distribution maps. **318)** *Calochroa interruptofasciata flavolineata* (Chaudoir, 1865). **319)** *Calochroa harmandi* (Fleutiaux, 1893). **320)** *Calochroa bramani* (Dokhtouroff, 1882). **321)** *Cicindela (Sophiodela) chinensis chinensis* (Geer, 1774). **322)** *Cicindela (Pseudoverticina) antennalis* Cassola, 2011. **323)** *Calomera angulata angulata* (Fabricius, 1798).



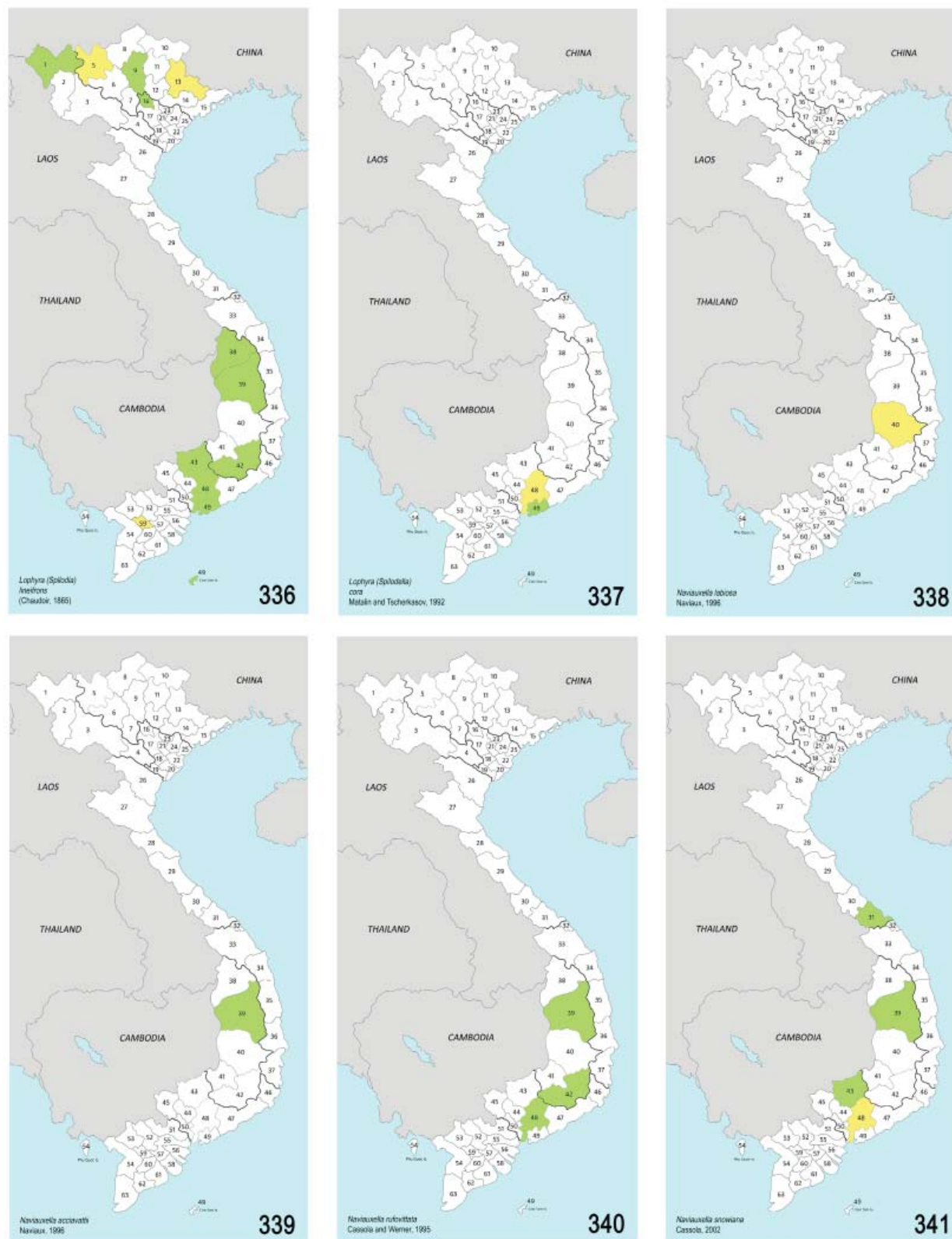
**Figures 324-329.** Distribution maps. **324)** *Calomera plumigera scoliographa* (Rivalier, 1953). **325)** *Calomera funerea funerea* (Macleay, 1825). **326)** *Calomera funerea genetica* (Horn, 1926). **327)** *Cosmodela duponti duponti* (Dejean, 1826). **328)** *Cosmodela juxtata* (Acciavatti and Pearson, 1989). **329)** *Cosmodela virgula* (Fleutiaux, 1893).



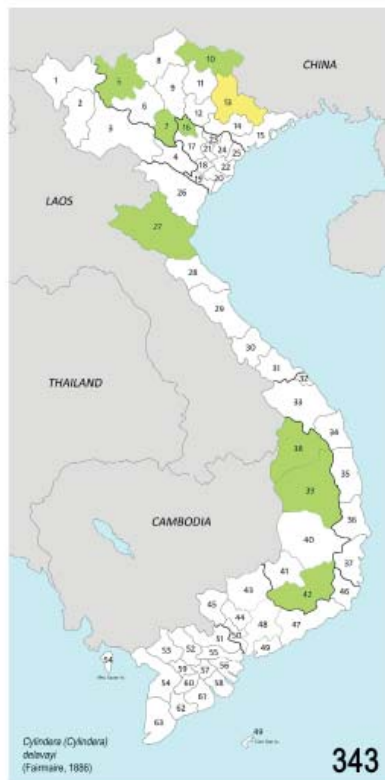


**Figures 330-335.** Distribution maps. **330** *Cosmodonta separata* (Fleutiaux, 1893). **331** *Lophyra (Lophyra) fuliginosa* (Dejean, 1826). **332** *Lophyra (Lophyra) cancellata cancellata* (Dejean, 1825). **333** *Lophyra (Lophyra) kuznetzovi* Tschekasov, 1992. **334** *Lophyra (Spilodia) striolata striolata* (Illiger, 1800). **335** *Lophyra (Spilodia) striolata dorsolineolata* (Chevrolat, 1845).

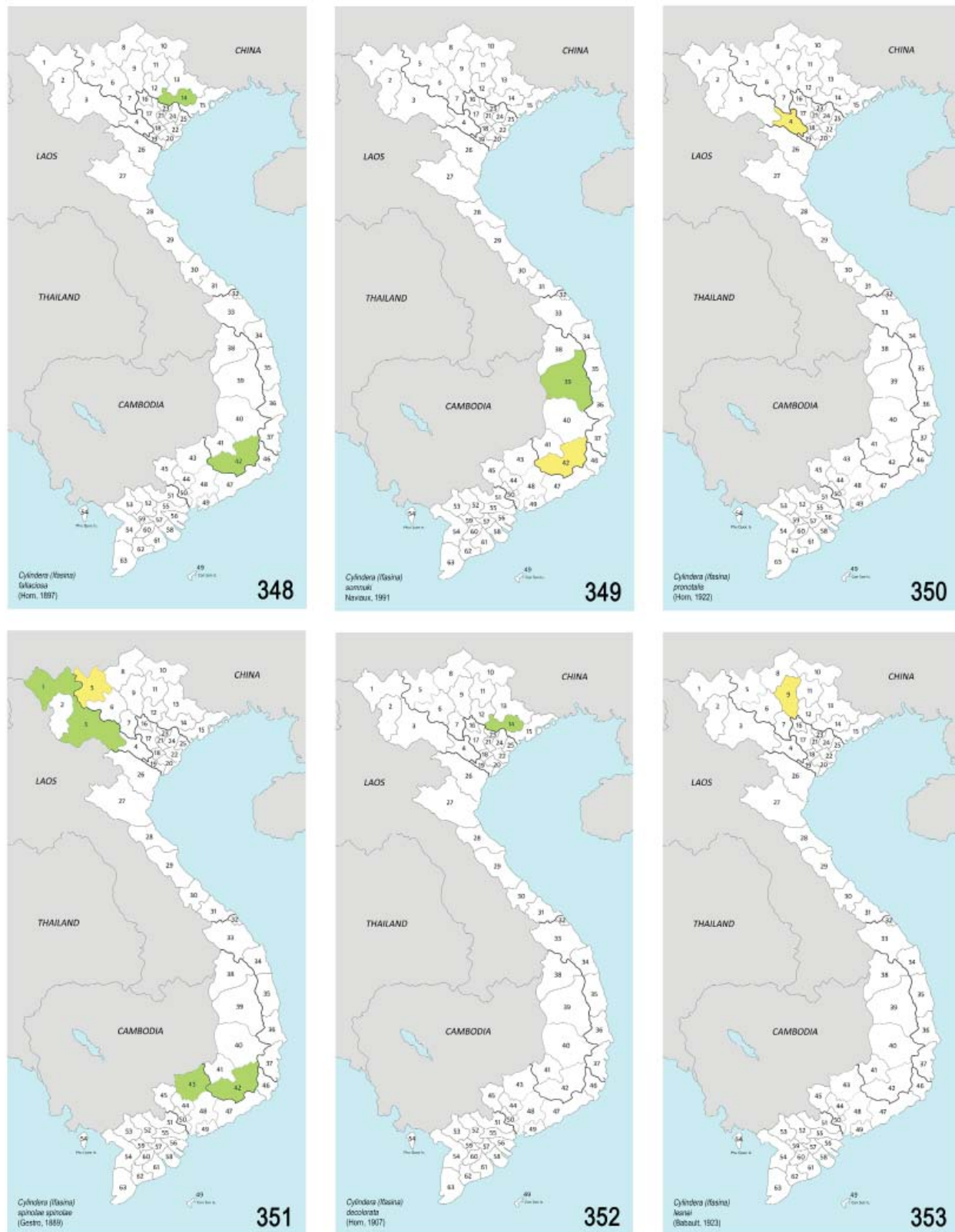




**Figures 336-341.** Distribution maps. **336)** *Lophyra (Spilodia) lineifrons* (Chaudoir, 1865). **337)** *Lophyra (Spilodia) cora* Matalin and Cherkasov, 2004. **338)** *Naviauxella labiosa* Naviaux, 1996. **339)** *Naviauxella acciavattii* Naviaux, 1996. **340)** *Naviauxella rufovittata* Cassola and Werner, 1995. **341)** *Naviauxella snowiana* Cassola, 2002.

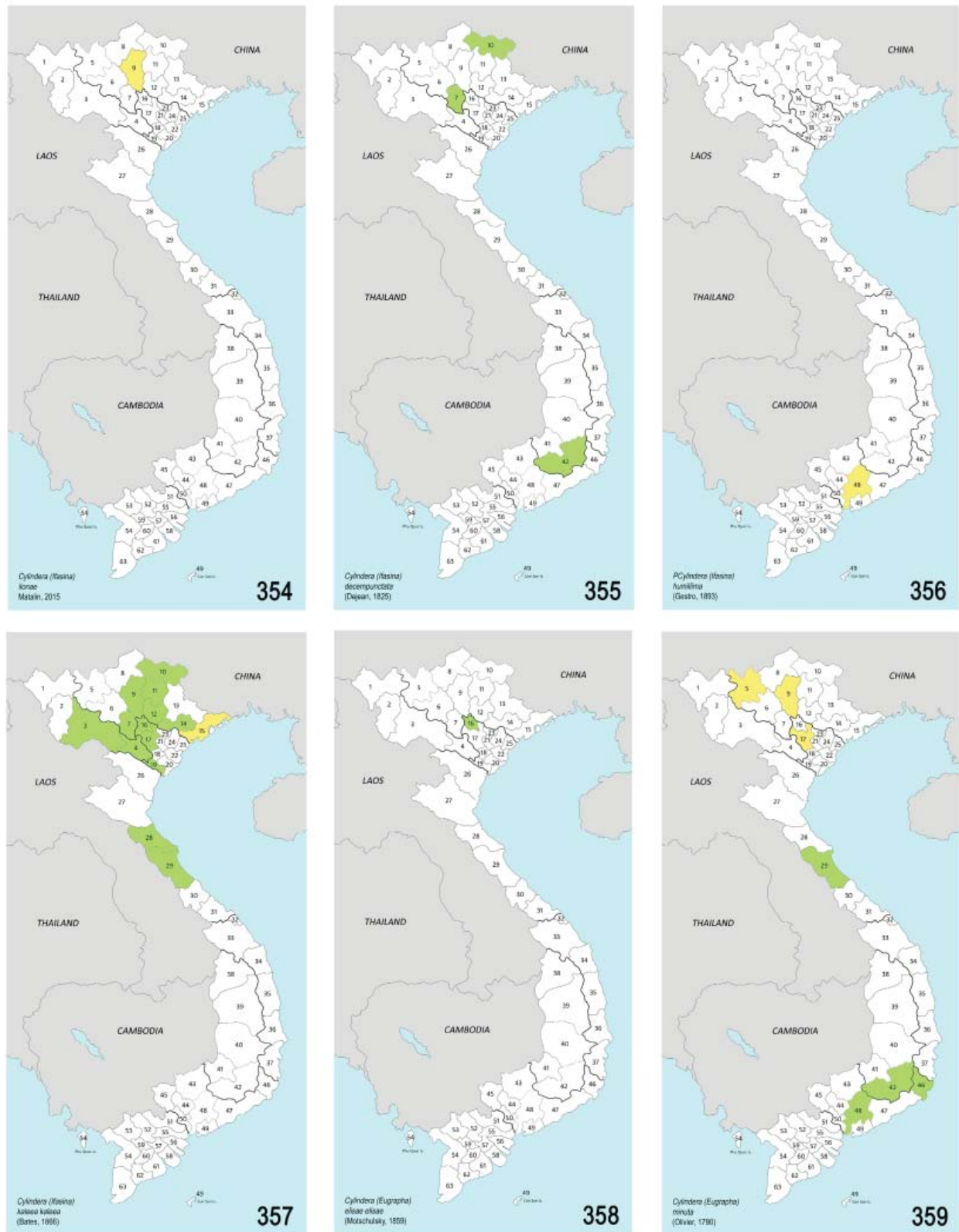


**Figures 342-347.** Distribution maps. **342)** *Probstia triumphalis* (Horn, 1902). **343)** *Cylindera (Cylindera) delavayi* (Fairmaire, 1886). **344)** *Cylindera (Verticina) antoni* Cassola and Probst, 1996. **345)** *Cylindera (Ifasina) foveolata* (Schaum, 1863). **346)** *Cylindera (Ifasina) cyclobregma* Acciavatti and Pearson, 1989. **347)** *Cylindera (Ifasina) viduata* (Fabricius, 1801).



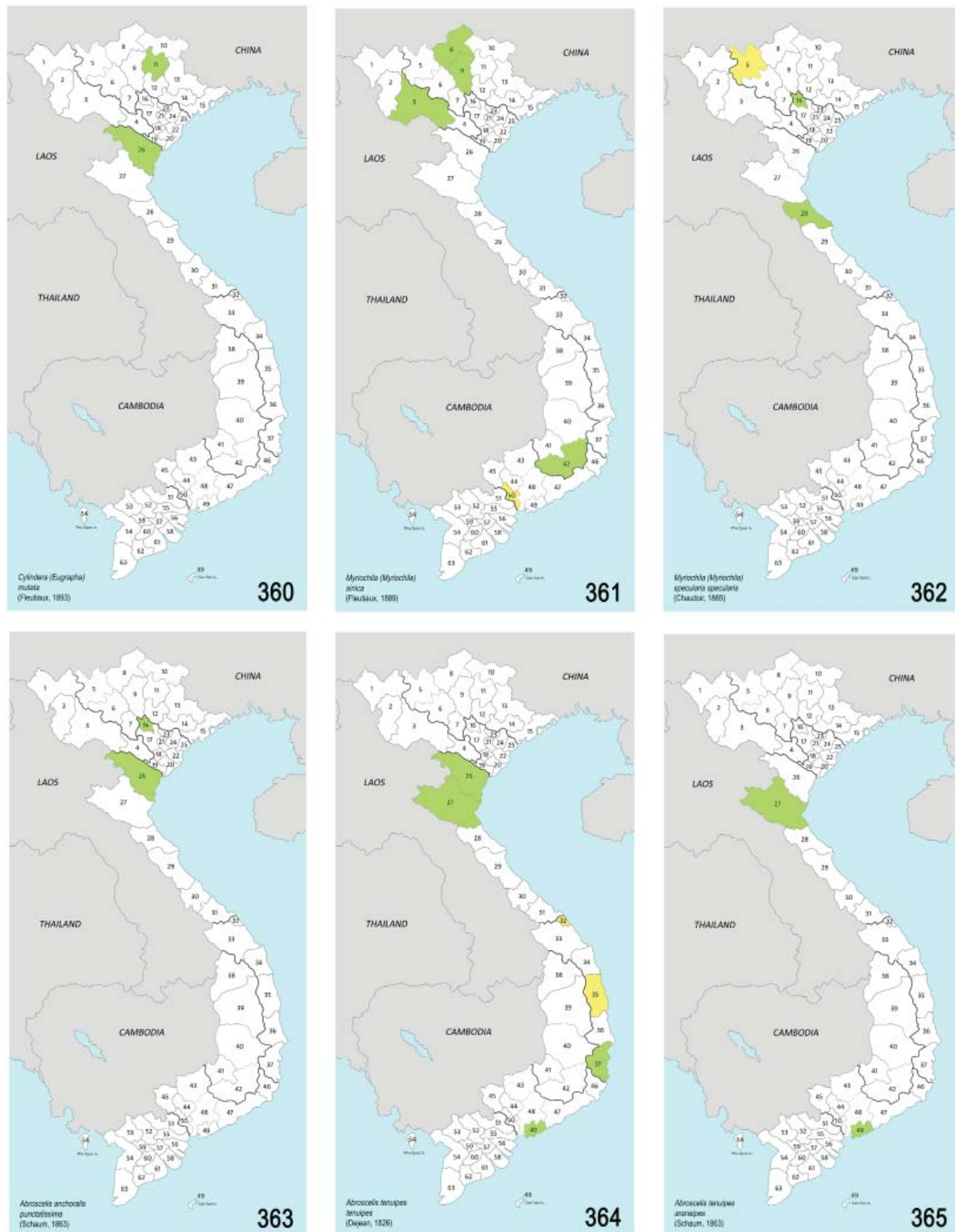
**Figures 348–353.** Distribution maps. **348)** *Cylindera (Ifasina) fallaciosa* (Horn, 1897). **349)** *Cylindera (Ifasina) somnuki* Naviaux, 1991. **350)** *Cylindera (Ifasina) pronotalis* (Horn, 1922). **351)** *Cylindera (Ifasina) spinolae spinolae* (Gestro, 1889). **352)** *Cylindera (Ifasina) decolorata* (Horn, 1907). **353)** *Cylindera (Ifasina) lesnei* (Babault, 1923).



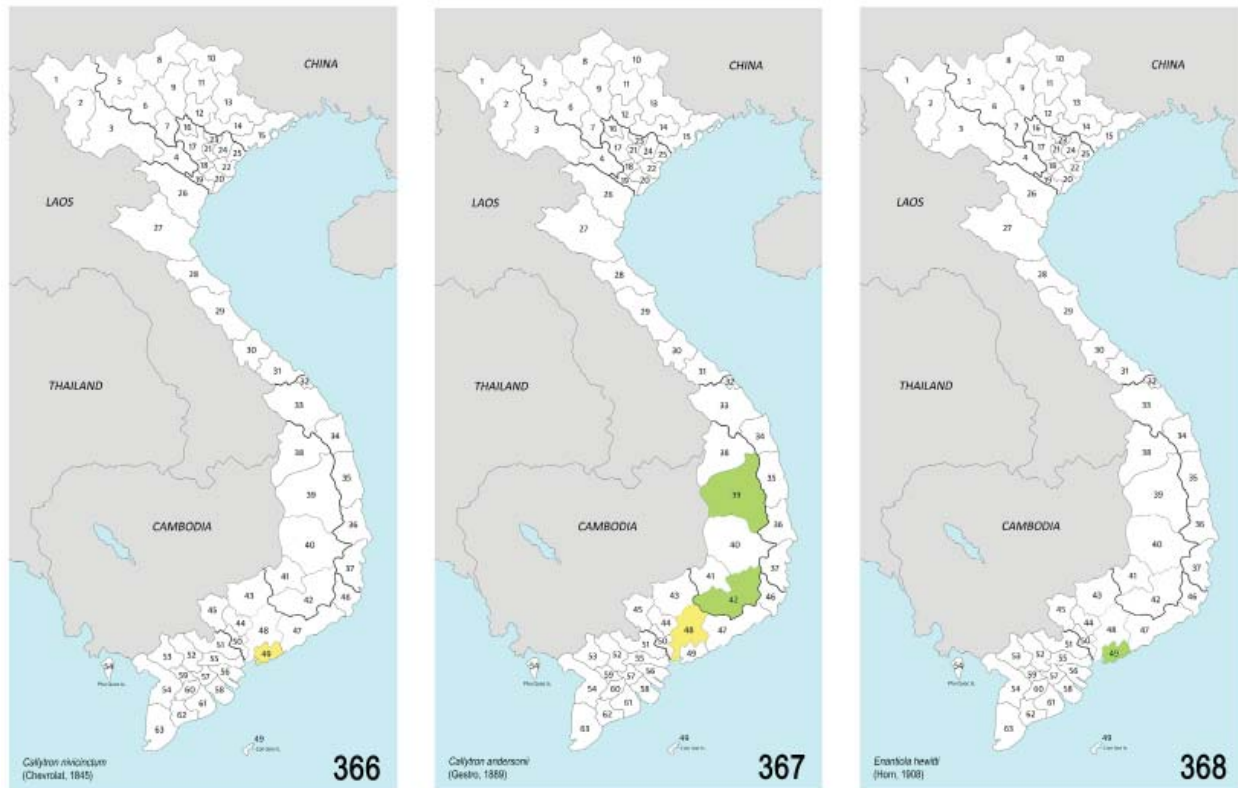


**Figures 354-359.** Distribution maps. **354)** *Cylindera (Ifasina) ilonae* Matalin, 2015. **355)** *Cylindera (Ifasina) decempunctata* (Dejean, 1825). **356)** *Cylindera (Ifasina) humillima* (Gestro, 1893). **357)** *Cylindera (Ifasina) kaleea* (Bates, 1866). **358)** *Cylindera (Eugrapha) elisae elisae* (Motschulsky, 1859). **359)** *Cylindera (Eugrapha) minuta* (Olivier, 1790).





**Figures 360-365.** Distribution maps. **360)** *Cylindera (Eugrapha) mutata* (Fleutiaux, 1893). **361)** *Myriochila (Myriochila) sinica* (Fleutiaux, 1889). **362)** *Myriochila (Myriochila) specularis specularis* (Chaudoir, 1865). **363)** *Abroscelis anchoralis punctatissima* (Schaum, 1863). **364)** *Abroscelis tenuipes tenuipes* (Dejean, 1826). **365)** *Abroscelis tenuipes araneipes* (Schaum, 1863).



**Figures 366-368.** Distribution maps. **366)** *Callytron nivicinctum* (Chevrolat, 1845). **367)** *Callytron andersonii* (Gestro, 1889). **368)** *Enantiola hewittii* (Horn, 1908).

